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Middleburg Heights, OH 44130-7952
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November 25, 2013

Ms. Elizabeth Nightingale and Ms. Tricia Edwards
On-Scene Coordinators
U.S. Environmental Protection Agency
9311 Groh Road
Grosse Ile, MI 48138

Subject: **Plastech Engineered Products, Inc.**
Time-Critical Removal Action
Andover, Ashtabula County, Ohio
Technical Direction Document No.: S05-0001-1308-002
Work Order No.: 20405.012.001.2232.00
Document Control No.: 2232-2A-BJWP

Dear Ms. Nightingale and Ms. Edwards:

Under Technical Direction Document (TDD) No. S05-0001-1308-002, the U.S. Environmental Protection Agency Emergency Response Branch (ERB) tasked the Weston Solutions, Inc. (WESTON®), Superfund Technical Assessment and Response Team (START) to assist with oversight and documentation of time-critical removal action (TCRA) activities at the Plastech Engineered Products, Inc. (Plastech), site in Andover, Ashtabula County, Ohio (the site). Specifically, START collected written and photographic documentation of site conditions and TCRA activities, monitored ambient air, and managed site-related files and information.

This letter report discusses the site description, site history, the organization and objectives of the TCRA, TCRA activities, and waste disposal. **Attachment A** provides the figures for this letter report. **Attachment B** provides photographic documentation of site conditions and removal action activities. **Attachment C** provides the laboratory analytical results for waste profile samples collected during the removal action. **Attachment D** provides the waste disposal manifest.

SITE DESCRIPTION

The site is located at 205 Maple Street Extension in Andover, Ashtabula County, Ohio (**Figure 1** in **Attachment A**). The site coordinates are 41.61278 degrees North latitude and 80.56873 degrees West longitude. The site occupies 19.8 acres and contains a former manufacturing building of approximately 274,000 square feet and asphalt parking lots south and west of the building (**Figure 2** in **Attachment A**). The site property includes two parcels of land zoned for light industrial land use identified by the Ashtabula County Auditor's Office as Parcels No. 02-013-20-007-00 and 02-013-20-007-01.

The site is bordered by the following:

- North – Wooded, vacant residential land
- East – Wooded, vacant residential land and an unnamed creek flowing into the Pymatuning Reservoir located 1.7 miles east of the site
- South – A residence and unnamed creek
- West – Commercial and residential properties and North Main Street

During site inspections conducted by the Ohio Environmental Protection Agency (Ohio EPA) from 2009 through 2012, site access was unrestricted and signs of trespassing and vandalism were observed. According to Ohio EPA records, approximately 51 people reside within 0.5 mile of the site and 228 people reside within 1 mile of the site.

SITE HISTORY

The site formerly manufactured automotive body parts by plastic injection molding and painting processes. Andover Industries BMPI (Andover Industries) operated the site until filing for bankruptcy in October 2004. In 2005, Plastech purchased the site in a bankruptcy court auction and resumed manufacturing processes. In February 2008, manufacturing operations ceased at the site after Plastech filed for Chapter 11 bankruptcy. In 2009, Trusted Partners, LLC, purchased assets formerly owned by Plastech.

Andover Industries and Plastech both were large-quantity generators of hazardous wastes. In 1999, Andover Industries generated 194.56 tons of regulated hazardous wastes. In 2007, Plastech generated 222.77 tons of regulated hazardous wastes. The wastes generated at the site included spent solvent, waste paint, spent spray booth filters, spray booth coating waste, and used oil. The wastes were characterized by the generator as D001 (ignitable), D005 (barium), D035 (methyl ethyl ketone), and F003 and F005 (spent non-halogenated solvents).

On February 11, 2009, the Ohio EPA inspected and documented containerized wastes at the site. Personnel who had reportedly purchased some material assets at the site were dismantling equipment for sale or scrap.

On April 26, 2010, the Ohio EPA inspected the site and documented suspected regulated wastes in abandoned containers.

On June 15, 2010, the Ohio EPA issued a Notice of Violation to the former owner of Plastech and the bankruptcy liquidating officer for failure to remove and dispose of all regulated wastes before operations ceased at the site. No response was received.

On June 13, 2012, the Ohio EPA conducted a follow-up inspection of the site and documented drums and small containers with hazardous labeling, in-floor sumps and trench drains containing paint and solvent wastes, and leaking and damaged electrical transformers.

On August 7, 2012, the Ohio EPA referred the site to the EPA Region 5 ERB for consideration of a TCRA.

On August 29, 2012, the EPA conducted a removal site assessment at the site and documented potential for imminent and substantial threats to the public health or welfare of the United States or the environment. During the site assessment, areas of the site were assigned the same numerical designations previously assigned to the areas by the Ohio EPA. **Figure 2** in **Attachment A** shows the areas inventoried during the site assessment, which include the following:

Area 1 – Former paint mixing area (3,860 square feet) in the northwest corner of the former manufacturing building containing in-floor sumps and trenches

Area 2 – Open courtyard (1,670 square feet) between structural additions of the former manufacturing building containing a small storage outbuilding and a caged electrical transformer on a concrete pad

Area 3 – Raw material warehouse and storage area (40,000 square feet) at the northeast corner of the former manufacturing building

Area 4 – Outbuilding (780 square feet) near the southern site boundary filled with parts and small containers

Area 5 – Outdoor transformer cage and concrete pad (1,450 square feet) at the southeastern corner of the former manufacturing building

Area 6 – Centrally located room (19,000 square feet) that formerly housed hydraulic plastics molding equipment containing in-floor sumps and trenches for hydraulic oil

Area 7 – Storage room (1,350 square feet) on the north side of the former manufacturing building containing drums

Area 8 – Former paint line loading area and finishing room (14,800 square feet) on the western side of the former manufacturing building

During the site assessment, samples were collected from (1) drums and small containers in Areas 4, 6, and 7 suspected of containing hazardous wastes; (2) an in-floor sump in Area 1; and (3) waste oil in and around damaged electrical transformers in Area 5. Laboratory analytical results were reported to the EPA in a site assessment report delivered on February 11, 2013 (Document Control No. 1942-2A-BARH). Waste materials at the site included the following:

- Corrosive (D002) hazardous waste in one drum and up to five small containers
- Oxidizer (D003) waste in two small containers
- Waste oil containing lead (D008) at a concentration exceeding the toxicity characteristic limit

- Spent paints and solvent wastes (F003 and F005) in sumps and trench drains in the former paint mixing area (Area 1)
- Numerous damaged fluorescent light ballasts

On April 29, 2013, the EPA signed a removal action memorandum to remove the hazardous and abandoned wastes from the site.

On July 23, 2013, EPA was granted access to the site to conduct removal action activities.

TCRA ORGANIZATION AND OBJECTIVES

On August 25, 2013, EPA and the Emergency and Rapid Response Services (ERRS) contractor mobilized personnel and equipment to the site. On August 26, 2013, one START member mobilized to the site and the ERRS crew began removal action activities. The table below summarizes the organization of the TCRA.

ORGANIZATION OF TCRA

Agencies or Parties Involved	Contact	Role
EPA – Region 5 Division of Superfund Emergency Response Branch 25089 Center Ridge Road Westlake, OH 44145	Elizabeth Nightingale (734) 692-7665 and Tricia Edwards (734) 740-9016	Federal OSCs responsible for overall project oversight and success
Weston Solutions, Inc. 6779 Engle Road Suites I & J Middleburg Heights, OH 44130	Ryan Green (440) 202-2811	START project manager responsible for removal action oversight support, direction of daily START activities, quality control, documentation, and START-related cost-tracking
Environmental Quality Management, Inc. 1800 Carillon Boulevard Cincinnati, OH 45240	Edward Kiernicki (586) 254-6553	Response manager responsible for directing daily ERRS activity, providing personnel and equipment necessary for removal action, and coordinating transportation and disposal of waste streams

Notes:
ERRS = Emergency and Rapid Response Services
OSC = On-Scene Coordinator
START = Superfund Technical Assessment and Response Team

The ERRS response manager was tasked with coordinating activities to achieve the following TCRA objectives at the site:

- Remove paint sludge and solvents from in-floor sumps and trenches in Area 1
- Remove waste oil from vandalized transformers and switchgear in Areas 2 and 5 and from sumps in Area 6
- Consolidate and remove hazardous and abandoned wastes stored in drums, cylinders, and various small containers from all areas in the former manufacturing building and an outbuilding (Area 4)
- Gather and consolidate damaged fluorescent light bulbs from all areas in the former manufacturing building
- Collect waste profile samples for laboratory analysis, and use hazard categorization (HAZCAT) techniques to determine appropriate disposal waste streams
- Coordinate transport of all consolidated waste streams to the designated disposal facility

START was tasked with the following documentation and monitoring objectives:

- Prepare a site-specific Emergency Contingency Plan and provide copies to the local fire and police departments
- Monitor volatile organic compound (VOC) and particulate concentrations during waste consolidation and removal activities
- Collect written and photographic documentation of removal action activities
- Manage site-related files

TCRA ACTIVITIES

The following sections provide a chronological description of the TCRA activities performed by ERRS contractor personnel and START to achieve the TCRA objectives listed above. **Attachment B** provides photographic documentation of site conditions and removal action activities.

Mobilization and Site Preparation

August 25, 2013

The ERRS contractor mobilized a Response Manager (RM), a Field Cost Accountant, an equipment operator, and two laborers to the site along with equipment and supplies. Equipment included a rental skid steer, a Conex storage box, three rental sanitation units, and a hand-wash station.

August 26, 2013

EPA mobilized an EPA-owned office trailer from the Westlake, Ohio, office to the site. One START member mobilized to the site with a MultiRAE Plus five-gas monitor, a personal DataRAM particulate monitor, and documentation supplies. An initial walkthrough was conducted of the site property and buildings to locate the wastes characterized during the site assessment in 2012. Air monitoring readings remained at background concentrations during the site walkthrough.

The ERRS contractor set up a contamination reduction zone (CRZ) in a loading dock opening to the western parking lot (**Figure 2** in **Attachment A**). A portable eyewash station, emergency shower, and water supply tank were set up in the CRZ. The ERRS contractor constructed a staging pad for waste containers inside the building east of the CRZ. Plastic sheeting and sorbent booms were placed on the floor of the staging pad as secondary containment for potential spillage or leaking containers. All sampling, HAZCAT techniques, and waste consolidation activities were to be conducted on the staging pad.

The ERRS contractor used the skid steer and hand tools to remove overgrown vegetation surrounding the transformer in Area 2 and the outbuilding in Area 4. START prepared an Emergency Contingency Plan for distribution to local government agencies and emergency responders in the Village of Andover, Ohio. The ERRS RM notified the local Village Administrator and the Chief of Police that EPA was conducting removal action activities at the site.

Removal Activities

August 27, 2013

The ERRS crew gathered waste containers from throughout the manufacturing building and the outbuilding in Area 4. Waste containers were placed on the centrally located staging pad and included the following:

- 10 55-gallon drums of liquid and solid wastes
- 6 55-gallon drums with waste residue
- 48 small containers of liquid and solid wastes
- 2 small containers with waste residue
- 38 empty used drums
- 2 empty cylinders formerly containing compressed carbon dioxide gas
- 28 mercury switches

One 55-gallon drum containing unknown liquid waste was leaking. The leaking drum was placed inside an 85-gallon over-pack drum before being moved to the staging pad. Air monitoring readings for total VOCs near the leaking drum reached a maximum of 1.1 parts per million (ppm) before the drum was sealed within the over-pack drum.

After the waste containers were gathered, all personnel participated in a thorough walkthrough of the site buildings to verify that all waste containers had been relocated to the staging pad. START conducted air monitoring inside the buildings during the walkthrough, and all readings remained at background concentrations.

Hard copies of the Emergency Contingency Plan were delivered to the Andover Police Department and Fire Department.

The EPA submitted documentation to the Ohio EPA to obtain a site-specific, large-quantity generator identification number for the disposal of hazardous, universal, and used oil wastes from the site.

August 28, 2013

An ERRS chemist mobilized to the site. The ERRS RM and chemist reviewed sampling results from the START site assessment report and available container label information and Material Safety Data Sheets. All containers with unknown contents or incomplete waste profile information were segregated for additional sampling and HAZCAT analysis to determine the appropriate waste streams. The ERRS crew donned Level C personal protective equipment (PPE) and collected representative grab samples from each of 8 55-gallon drums and 23 small containers at the staging pad, a composite sample from sludge in sumps and trenches in Area 1, and a grab sample of waste oil from the vandalized transformer in Area 2.

The ERRS crew gathered a total of 42 damaged fluorescent light bulbs and consolidated them into a cardboard container on the staging pad.

August 29, 2013

The ERRS crew began using hand tools to remove paint sludge and spent solvents from sumps and trenches in a former paint mixing room in Area 1. START collected air monitoring readings from the breathing zone in Area 1 during removal action activities. Total VOC concentrations were sustained at a time-weighted average of 2.1 ppm, with a maximum instantaneous concentration of 4.6 ppm. Total VOC concentrations in the breathing zone remained below the action level of 25 ppm required for upgrade to Level C PPE in accordance with the site-specific Health and Safety Plan. As a precaution, ERRS crew members donned Level C PPE while handling the paint sludge and spent solvents removed from the sumps and trenches in Area 1. The OSC requested this precautionary measure to reduce the risk of exposure to instantaneous peaks in airborne VOC concentrations and strong nuisance odors caused by the disturbance of paint sludge and spent solvents with hand tools.

The ERRS chemist began HAZCAT analyses on the 33 waste samples collected August 28, 2013.

An ERRS subcontractor delivered new containers to the site, including three 275-gallon polyethylene totes, six 55-gallon steel drums, eight 85-gallon steel over-pack drums, three 95-gallon polyethylene over-pack drums, and a cardboard shipping container for universal waste fluorescent light bulbs.

A representative from the Ohio EPA Northeast District Office participated in an inspection of the site with EPA and START personnel.

August 30, 2013

The ERRS crew completed removal of paint sludge and spent solvents from sumps and trenches in Area 1. Granular absorbent material was used to absorb and remove residue from the sumps and trenches. A drum pump was used to remove waste oil from in-floor sumps and reservoirs in Area 6 and vandalized transformer switchgear in Area 5.

The ERRS chemist finished HAZCAT analyses and provided compatible waste stream information to the ERRS RM and EPA. The ERRS chemist demobilized from the site.

The ERRS crew began placing drums and small containers into new over-pack containers on the staging pad. Containerized wastes were moved into the Conex storage box. The Conex box was locked, and all personnel demobilized from the site over the government holiday weekend. The ERRS RM submitted the waste profile samples prepared by the ERRS chemist to the designated laboratory, RTI Laboratories, Inc., located in Livonia, MI. **Attachment C** provides the laboratory analytical results for the waste profile samples.

August 31 through September 2, 2013

One local ERRS laborer checked the site during daylight hours each day for signs of trespassing and vandalism of EPA property, rental equipment, and the containerized wastes in the Conex box. No signs of recent trespassing or vandalism were observed.

September 3, 2013

An OSC and ERRS contractor personnel re-mobilized to the site by midday. The ERRS crew swept up numerous broken fragments of vandalized fluorescent bulbs inside the former manufacturing building and containerized them in the cardboard shipping container. Oil-stained vegetation and debris near the base of three vandalized electrical transformers in Area 5 was removed and containerized.

September 4, 2013

One START member remobilized to the site with air monitoring equipment and documentation

supplies. The ERRS crew over-packed the remaining waste containers and temporarily staged the containerized wastes in the Conex box. A rental pneumatic diaphragm pump and gasoline-powered air compressor were used to remove approximately 900 gallons of waste oil from the vandalized electrical transformer in Area 2. The waste oil was transferred into the three 275-gallon polyethylene totes delivered to the site on August 29, 2013.

Broken fragments of fluorescent bulbs were swept up from an outdoor concrete pad east of Area 1 and containerized in the cardboard shipping container. Powered hand tools were used to cut up 33 empty drums at the staging pad.

One START member and two ERRS laborers demobilized from the site as removal action activities ramped down.

September 5 and 6, 2013

The remaining ERRS crew members completed general housekeeping activities and packed equipment and supplies from the CRZ and staging pad for demobilization. Cut up remnants of empty drums and PPE were loaded into a 20-cubic-yard roll-off box for transport to a nonhazardous disposal facility. The RM scheduled pickup of the roll-off box for September 10, 2013.

All containerized and over-packed wastes temporarily were staged inside the padlocked Conex box in the western parking lot pending receipt of laboratory results for the waste profile samples submitted to the laboratory on August 30, 2013. The EPA office trailer and the rental skid steer and sanitation units were demobilized from the site. All EPA and ERRS personnel demobilized from the site.

October 28, 2013

The ERRS RM and one ERRS operator remobilized to the site with a rental skid steer front-end loader. The ERRS crew conducted a walkthrough of the site and checked that containerized wastes temporarily staged inside the Conex box were secure.

October 29, 2013

One START member remobilized to the site with documentation supplies. The ERRS RM and equipment operator removed containerized wastes from the Conex box and loaded them into a placarded box truck for transport to the designated disposal facility, Petro-Chem Processing Group in Detroit, Michigan. All personnel and equipment were demobilized from the site.

WASTE DISPOSAL

On October 29, 2013, a certified waste transporter, Nortru, LLC, transported the following containers from the site to the designated disposal facility: three 275-gallon totes, two 95-gallon polyethylene over-pack drums, seven 85-gallon steel over-pack drums, four 55-gallon steel

drums, and four 5-gallon and one 1-gallon small containers. All wastes were shipped under State of Ohio Waste Manifest No. 011328840JJK. The table below summarizes the waste disposal information for this removal action. **Attachment D** provides a copy of the waste disposal manifest.

WASTE DISPOSAL SUMMARY

Waste Stream	Total Quantity	Manifest No.	Designated Disposal Facility
D001 Flammables	800 Pounds	011328840JJK	Petro-Chem Processing Group 421 Lycaste Street Detroit, MI 48214 (313) 824-5840
D002 Corrosives	195 Gallons		
D009 Mercury	700 Pounds		
Universal Waste (fluorescent bulbs)	5 Pounds		
Oxidizer Waste	15 Pounds		
Phenol Waste	10 Pounds		
Waste Oil and Liquids	1315 Gallons		

As of October 29, 2013, all removal action activities requested by the EPA at the site had been completed. Areas 1 through 8 have all been addressed. EPA documented the waste disposal information for the site in the final Pollution Report dated November 27, 2013.

This letter report serves as the final deliverable for TDD No. S05-0001-1308-002. If you have any questions or comments regarding this report, please contact the undersigned.

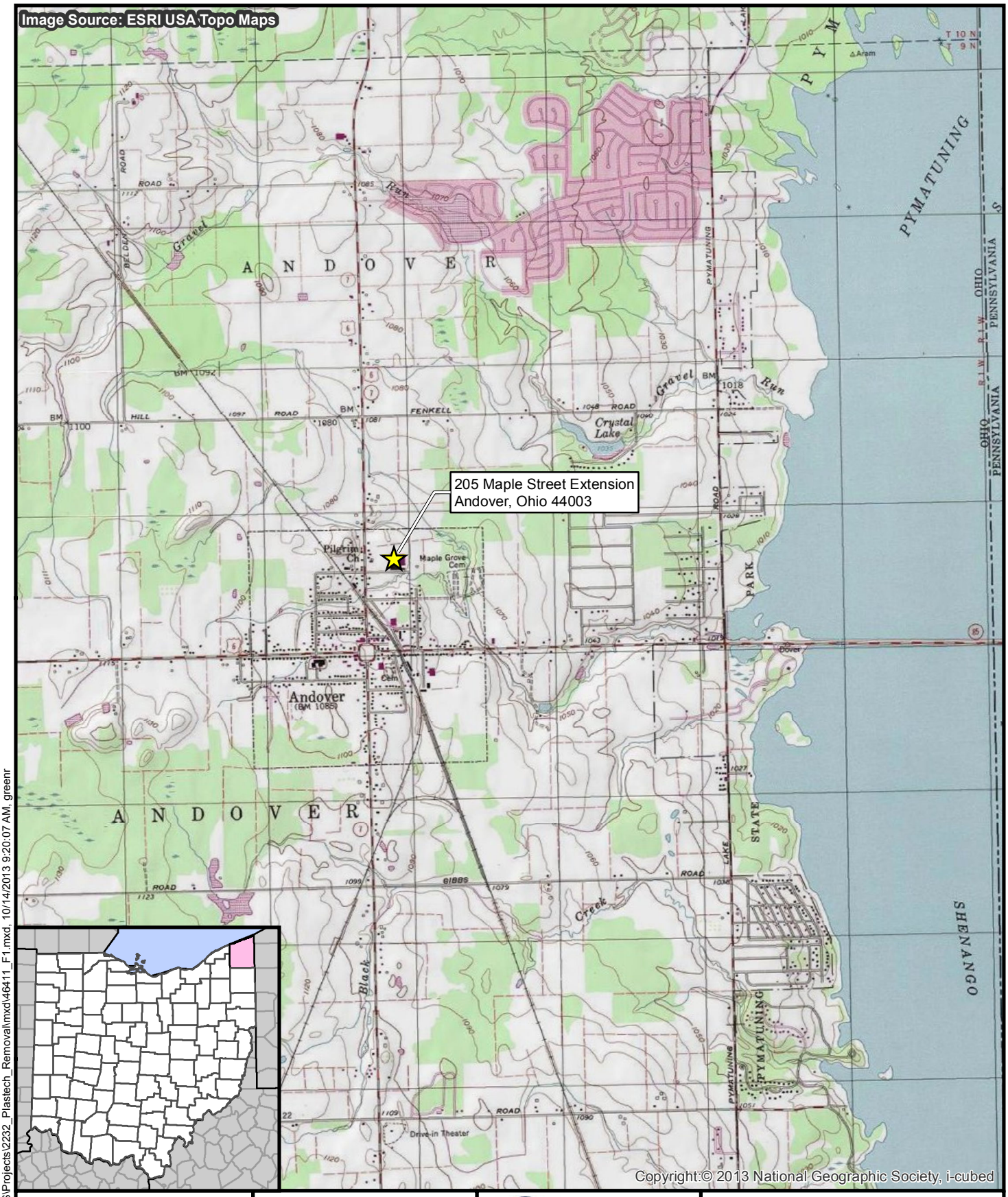
WESTON SOLUTIONS, INC.

Ryan Green
START Project Manager
(440) 202-2811

Attachments:
A – Figures
B – Photographic Documentation
C – Laboratory Analytical Results
D – Waste Disposal Manifest

cc: Region 5 Superfund Records Center
WESTON START Document Control

ATTACHMENT A
FIGURES



Path: C:\Users\greenr\GIS\Projects\2232_Plastech_Removal\mxd\46411_F1.mxd, 10/14/2013 9:20:07 AM, greenr

Legend

Site Location

N

0 3,000 Feet

Prepared for:
U.S. EPA REGION V

Contract No.: EP-S5-06-04
TDD: S05-0001-1308-002
DCN: 2232-2A-BJWP

Prepared By:
WESTON SOLUTIONS, INC
6779 Engle Road
Suite I
Middleburg Heights, Ohio 44130

Figure 1
Site Location Map
Plastech Engineered Products, Inc., Site
Andover, Ashtabula County, Ohio

Path: C:\Users\greenr\GIS\Projects\2232_Plastech_Removal\mxd\46411_F2.mxd, 11/22/2013 2:11:25 PM, greenr

Legend

- Inventory Areas
- Staging Pad
- CRZ
- Site Property Boundary
- Creek

N

0 150 Feet

Prepared For:
U.S. EPA REGION V
Contract No.: EP-S5-06-04
TDD: S05-0001-1308-002
DCN: 2232-2A-BJWP

Prepared By:
WESTON SOLUTIONS
6779 Engle Road
Suite I
Middleburg Heights, Ohio 44130

Figure 2
Removal Areas
Plastech Engineered Products, Inc., Site
Andover, Ashtabula County, Ohio

ATTACHMENT B
PHOTOGRAPHIC DOCUMENTATION

Site: Plastech Engineered Products, Inc.
Photograph No.: 1 **Date:** 8/26/13
Direction: South **Photographer:** TJ McFarland
Subject: Drums and small containers in Area 7

Site: Plastech Engineered Products, Inc.
Photograph No.: 2 **Date:** 8/27/13
Direction: East **Photographer:** TJ McFarland
Subject: CRZ set up by ERRS contractor next to the container staging area

Site: Plastech Engineered Products, Inc.
Photograph No.: 3 **Date:** 8/27/13
Direction: Northeast **Photographer:** TJ McFarland
Subject: Drums and small containers on plastic sheeting in the container staging area

Site: Plastech Engineered Products, Inc.
Photograph No.: 4 **Date:** 8/28/13
Direction: Northeast **Photographer:** TJ McFarland
Subject: Loose fluorescent bulbs gathered from the manufacturing building

Site: Plastech Engineered Products, Inc.
Photograph No.: 5 **Date:** 8/28/13
Direction: North **Photographer:** TJ McFarland
Subject: ERRS crew collecting waste profile samples from drums in the container staging area

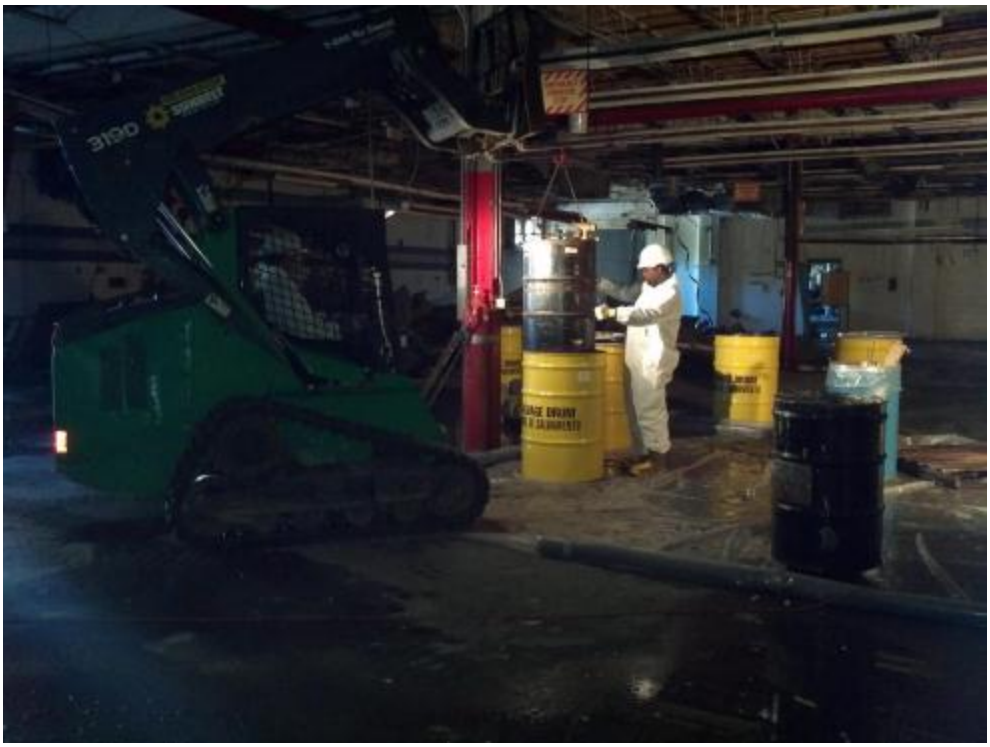
Site: Plastech Engineered Products, Inc.
Photograph No.: 6 **Date:** 8/29/13
Direction: South **Photographer:** Ryan Green
Subject: A sump and trenches in Area 1 during removal action activities

Site: Plastech Engineered Products, Inc.
Photograph No.: 7 **Date:** 8/29/13
Direction: West **Photographer:** Ryan Green
Subject: Drums delivered to the site for over-packing waste containers

Site: Plastech Engineered Products, Inc.
Photograph No.: 8 **Date:** 8/29/13
Direction: West **Photographer:** Ryan Green
Subject: ERRS crew transferring paint from Area 1 trench into drum for disposal

Site: Plastech Engineered Products, Inc.
Photograph No.: 9 **Date:** 8/30/13
Direction: West **Photographer:** Lori Muller
Subject: ERRS crew removing paint residue from trenches in Area 1 using granular absorbent

Site: Plastech Engineered Products, Inc.
Photograph No.: 10 **Date:** 8/30/13
Direction: South **Photographer:** Ryan Green
Subject: Trenches in Area 1 after removal of paint residue



Site: Plastech Engineered Products, Inc.
Photograph No.: 11 **Date:** 8/30/13
Direction: Northwest **Photographer:** Ryan Green
Subject: ERRS crew placing damaged 55-gallon drums inside 85-gallon over-pack drums

Site: Plastech Engineered Products, Inc.
Photograph No.: 12 **Date:** 8/30/13
Direction: Down **Photographer:** Ryan Green
Subject: Used oil inside floor drains in Area 6 before removal action activities

Site: Plastech Engineered Products, Inc.
Photograph No.: 13 **Date:** 8/30/13
Direction: East **Photographer:** Ryan Green
Subject: Cardboard disposal container for universal waste fluorescent bulbs

Site: Plastech Engineered Products, Inc.
Photograph No.: 14 **Date:** 8/30/13
Direction: South **Photographer:** Ryan Green
Subject: Over-pack drums inside a secure Conex box temporarily staged in the west parking lot

Site: Plastech Engineered Products, Inc.
Photograph No.: 15 **Date:** 9/4/13
Direction: North **Photographer:** Ryan Green
Subject: RCRA-empty containers ready to be cut up in the container staging area

Site: Plastech Engineered Products, Inc.
Photograph No.: 16 **Date:** 9/4/13
Direction: East **Photographer:** Ryan Green
Subject: Used oil transferred into one of two 275-gallon totes by ERRS crew

ATTACHMENT C
LABORATORY ANALYTICAL RESULTS

RTI LABORATORIES, INC.

RTI Laboratories
31628 Glendale St.
Livonia, MI 48150
TEL: (734) 422-8000
Website: www.rtilab.com

Tuesday, September 10, 2013

Ed Kierniki
Environmental Restoration LLC
6812 Nineteen 1/2 MIle Rd.
Sterling Heights, MI 48314
TEL: (586) 246-2321
FAX: (586) 254-6547

RE: Plastech Engineered Products Site

Work Order #: 1309041

Dear Ed Kierniki:

RTI Laboratories received 6 sample(s) on 8/30/2013 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative.

This report may only be reproduced in its entirety. Individual pages, reproduced without supporting documentation, do not contain related information and may be misinterpreted by other data reviewers.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

Rachel Dear

Project Manager

RTI Laboratories - Workorder Sample Summary

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site

Lab Sample ID	Client Sample ID	Tag No	Date Collected	Date Received	Matrix
1309041-001A	PL-OL-01		8/30/2013 8:30 AM	8/30/2013 5:08 PM	Oil
1309041-002A	PL-SL-02		8/30/2013 8:30 AM	8/30/2013 5:08 PM	Solid
1309041-003A	PL-BL-03		8/30/2013 8:30 AM	8/30/2013 5:08 PM	Liquid
1309041-004A	PL-NL-04		8/30/2013 8:30 AM	8/30/2013 5:08 PM	Liquid
1309041-005A	PL-Trench-05		8/30/2013 8:30 AM	8/30/2013 5:08 PM	Liquid/Solid
1309041-006A	PL-Transf-06		8/30/2013 8:30 AM	8/30/2013 5:08 PM	Oil

RTI Laboratories - Case Narrative

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site

This report in its entirety consists of the documents listed below. All documents contain the RTI Work Order Number assigned to this report.

1. Paginated Report including: Case Narrative, Analytical Results and Applicable Quality Control Summary Reports.
2. A Cover Letter that immediately precedes the Paginated Report.
3. Paginated copies of the Chain of Custody Documents supplied with this sample set.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.

The EPA has withdrawn the tests for Reactive Cyanide and Reactive Sulfide. There is no guidance nor reference for testing wastes for Cyanide or Sulfide other than for total concentrations. The generator is required to provide a narrative description of the reactivity of the waste according to 40CFR261.23 for the Characteristic of Reactivity.

Volatile Organic Compound (SW8260B):
Sample ID: VOA10 MBLK 09071, Analytical Run ID: 61249: 1,2,3-Tichlorobenzene is detected in method blank at or above 1/2 the LOQ. The detected compound was not present in any of the samples.

Metals (SW6010C):
Sample ID: 1309041-003AMSD, Batch ID 30800: Recovery for As and Ag exceeded control limits

Mercury (SW7470A):
Sample ID: 1309041-003AMS, Batch ID 30804: Recovery for MS outside acceptance limits.
Sample ID: 1309041-003AMSD, Batch ID 30804: Recovery for MSD outside acceptance limits.

RTI Laboratories - Analytical Report

WO#: 1309041

Date Reported: 9/10/2013
Original

Client:	Environmental Restoration LLC	**Collection Date:**	8/30/2013 8:30:00 AM
Project:	Plastech Engineered Products Site		
Lab ID:	1309041-001	**Matrix:**	Oil
Client Sample ID:	PL-OL-01		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Polychlorinated Biphenyls		**Method: SW8082A**				**Analyst: MB**
Aroclor 1016	ND	0.98		mg/Kg	1	9/7/2013 9:52 PM
Aroclor 1221	ND	0.98		mg/Kg	1	9/7/2013 9:52 PM
Aroclor 1232	ND	0.98		mg/Kg	1	9/7/2013 9:52 PM
Aroclor 1242	ND	0.98		mg/Kg	1	9/7/2013 9:52 PM
Aroclor 1248	ND	0.98		mg/Kg	1	9/7/2013 9:52 PM
Aroclor 1254	ND	0.98		mg/Kg	1	9/7/2013 9:52 PM
Aroclor 1260	ND	0.98		mg/Kg	1	9/7/2013 9:52 PM
Aroclor 1262	ND	0.98		mg/Kg	1	9/7/2013 9:52 PM
Total PCBs	ND	0.98		mg/Kg	1	9/7/2013 9:52 PM
Surr: Tetrachloro-m-xylene	73.3	70-130		%REC	1	9/7/2013 9:52 PM
Surr: Decachlorobiphenyl	69.9	70-130	S	%REC	1	9/7/2013 9:52 PM
Total Halogens by IC **Inorganic Anions**		**Method: SW9056A**	**SW5050**			**Analyst: CR**
Bromide	ND	0.12		mg/Kg	1	9/7/2013 12:23 AM
Chloride	510	0.25		mg/Kg	1	9/7/2013 12:23 AM
Fluoride	6.1	0.12		mg/Kg	1	9/7/2013 12:23 AM
Heat Content, BTU		**Method: D240**	**SW5050**			**Analyst: MB3**
BTU	16,000	1.0		BTU/lb.	1	9/6/2013 10:29 AM
TCLP Metals, VOCs and SVOCs **Metals, ICP/OES**		**Method: SW6010C**	**SW3020A**			**Analyst: MK**
Arsenic	ND	40		µg/L	1	9/9/2013 12:22 PM
Barium	810	200		µg/L	1	9/9/2013 12:22 PM
Cadmium	3.8	5.0	J	µg/L	1	9/9/2013 12:22 PM
Chromium	3.6	10	J	µg/L	1	9/9/2013 12:22 PM
Lead	13	100	J	µg/L	1	9/9/2013 12:22 PM
Selenium	ND	40		µg/L	1	9/9/2013 12:22 PM
Silver	1.3	20	J	µg/L	1	9/9/2013 12:22 PM
TCLP Metals, VOCs and SVOCs **Mercury**		**Method: SW7470A**	**SW7470**			**Analyst: AB2**
Mercury	15	2.0		µg/L	10	9/6/2013 11:17 AM
TCLP Metals, VOCs and SVOCs **Semi-Volatile Organic Compounds**		**Method: SW8270D**	**SW3510C**			**Analyst: JH1**
2,4,5-Trichlorophenol	ND	100		µg/L	4	9/6/2013 12:57 PM
2,4,6-Trichlorophenol	ND	80		µg/L	4	9/6/2013 12:57 PM
2,4-Dinitrotoluene	ND	100		µg/L	4	9/6/2013 12:57 PM
2-Methylphenol	ND	100		µg/L	4	9/6/2013 12:57 PM
3/4 Methylphenol	ND	200		µg/L	4	9/6/2013 12:57 PM
Hexachlorobenzene	ND	20		µg/L	4	9/6/2013 12:57 PM

RTI Laboratories - Analytical Report

WO#: 1309041

Date Reported: 9/10/2013
Original

Client:	Environmental Restoration LLC	**Collection Date:**	8/30/2013 8:30:00 AM
Project:	Plastech Engineered Products Site		
Lab ID:	1309041-001	**Matrix:**	Oil
Client Sample ID:	PL-OL-01		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Hexachlorobutadiene	ND	20		µg/L	4	9/6/2013 12:57 PM
Hexachloroethane	ND	100		µg/L	4	9/6/2013 12:57 PM
Nitrobenzene	ND	60		µg/L	4	9/6/2013 12:57 PM
Pentachlorophenol	ND	100		µg/L	4	9/6/2013 12:57 PM
Pyridine	ND	200		µg/L	4	9/6/2013 12:57 PM
Surr: 2,4,6-Tribromophenol	74.9	40-125		%REC	4	9/6/2013 12:57 PM
Surr: 2-Fluorobiphenyl	66.1	50-110		%REC	4	9/6/2013 12:57 PM
Surr: 2-Fluorophenol	47.7	20-110	m	%REC	4	9/6/2013 12:57 PM
Surr: Nitrobenzene-d5	62.2	40-110		%REC	4	9/6/2013 12:57 PM
Surr: Phenol-d5	56.2	20-130		%REC	4	9/6/2013 12:57 PM
Surr: Terphenyl-d14	86.9	50-135		%REC	4	9/6/2013 12:57 PM
TCLP Metals, VOCs and SVOCs Volatile Organic Compounds		**Method: SW8260B**				**Analyst: AS1**
1,1-Dichloroethene	ND	200		µg/L	200	9/7/2013 5:16 PM
1,2-Dichloroethane	ND	200		µg/L	200	9/7/2013 5:16 PM
1,4-Dichlorobenzene	ND	200		µg/L	200	9/7/2013 5:16 PM
Benzene	ND	200		µg/L	200	9/7/2013 5:16 PM
Carbon tetrachloride	ND	200		µg/L	200	9/7/2013 5:16 PM
Chlorobenzene	ND	200		µg/L	200	9/7/2013 5:16 PM
Chloroform	ND	200		µg/L	200	9/7/2013 5:16 PM
Methyl ethyl ketone	ND	2,000		µg/L	200	9/7/2013 5:16 PM
Tetrachloroethene	ND	200		µg/L	200	9/7/2013 5:16 PM
Trichloroethene	ND	200		µg/L	200	9/7/2013 5:16 PM
Vinyl chloride	ND	200		µg/L	200	9/7/2013 5:16 PM
Surr: 4-Bromofluorobenzene	99.8	75-120		%REC	200	9/7/2013 5:16 PM
Surr: Dibromofluoromethane	90.6	85-115		%REC	200	9/7/2013 5:16 PM
Surr: Toluene-d8	93.7	85-120		%REC	200	9/7/2013 5:16 PM
Ignitability		**Method: SW1010**				**Analyst: JE**
Ignitability	>200	70		°F	1	9/4/2013 10:00 AM
Solid pH Measured in Water at Reported Temperature		**Method: SW9045D**				**Analyst: JE**
Hydrogen Ion (pH)	7.00			pH Units	1	9/4/2013 9:30 AM
Temperature	20.1			°C	1	9/4/2013 9:30 AM

RTI Laboratories - Analytical Report

WO#: 1309041

Date Reported: 9/10/2013
Original

Client:	Environmental Restoration LLC	**Collection Date:**	8/30/2013 8:30:00 AM
Project:	Plastech Engineered Products Site		
Lab ID:	1309041-002	**Matrix:**	Solid
Client Sample ID:	PL-SL-02		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
TCLP Metals, VOCs and SVOCs Metals, ICP/OES		**Method: SW6010C**		**SW3020A**		**Analyst: MK**
Arsenic	ND	40		µg/L	1	9/9/2013 12:29 PM
Barium	1,400	200		µg/L	1	9/9/2013 12:29 PM
Cadmium	1.1	5.0	J	µg/L	1	9/9/2013 12:29 PM
Chromium	2.8	10	J	µg/L	1	9/9/2013 12:29 PM
Lead	11	100	J	µg/L	1	9/9/2013 12:29 PM
Selenium	ND	40		µg/L	1	9/9/2013 12:29 PM
Silver	0.54	20	J	µg/L	1	9/9/2013 12:29 PM
TCLP Metals, VOCs and SVOCs Mercury		**Method: SW7470A**		**SW7470**		**Analyst: AB2**
Mercury	660	20	*	µg/L	100	9/6/2013 11:18 AM
TCLP Metals, VOCs and SVOCs Semi-Volatile Organic Compounds		**Method: SW8270D**		**SW3510C**		**Analyst: JH1**
2,4,5-Trichlorophenol	ND	25		µg/L	1	9/6/2013 12:32 PM
2,4,6-Trichlorophenol	ND	20		µg/L	1	9/6/2013 12:32 PM
2,4-Dinitrotoluene	ND	25		µg/L	1	9/6/2013 12:32 PM
2-Methylphenol	ND	25		µg/L	1	9/6/2013 12:32 PM
3/4 Methylphenol	ND	50		µg/L	1	9/6/2013 12:32 PM
Hexachlorobenzene	ND	5.0		µg/L	1	9/6/2013 12:32 PM
Hexachlorobutadiene	ND	5.0		µg/L	1	9/6/2013 12:32 PM
Hexachloroethane	ND	25		µg/L	1	9/6/2013 12:32 PM
Nitrobenzene	ND	15		µg/L	1	9/6/2013 12:32 PM
Pentachlorophenol	ND	25		µg/L	1	9/6/2013 12:32 PM
Pyridine	ND	50		µg/L	1	9/6/2013 12:32 PM
Surr: 2,4,6-Tribromophenol	95.9	40-125		%REC	1	9/6/2013 12:32 PM
Surr: 2-Fluorobiphenyl	39.2	50-110	S	%REC	1	9/6/2013 12:32 PM
Surr: 2-Fluorophenol	33.5	20-110	m	%REC	1	9/6/2013 12:32 PM
Surr: Nitrobenzene-d5	38.7	40-110	S	%REC	1	9/6/2013 12:32 PM
Surr: Phenol-d5	34.4	20-130		%REC	1	9/6/2013 12:32 PM
Surr: Terphenyl-d14	120	50-135		%REC	1	9/6/2013 12:32 PM
TCLP Metals, VOCs and SVOCs Volatile Organic Compounds		**Method: SW8260B**				**Analyst: AS1**
1,1-Dichloroethene	ND	200		µg/L	200	9/7/2013 5:41 PM
1,2-Dichloroethane	ND	200		µg/L	200	9/7/2013 5:41 PM
1,4-Dichlorobenzene	ND	200		µg/L	200	9/7/2013 5:41 PM
Benzene	ND	200		µg/L	200	9/7/2013 5:41 PM
Carbon tetrachloride	ND	200		µg/L	200	9/7/2013 5:41 PM
Chlorobenzene	ND	200		µg/L	200	9/7/2013 5:41 PM
Chloroform	ND	200		µg/L	200	9/7/2013 5:41 PM
Methyl ethyl ketone	ND	2,000		µg/L	200	9/7/2013 5:41 PM

RTI Laboratories - Analytical Report

WO#: 1309041

Date Reported: 9/10/2013
Original

Client:	Environmental Restoration LLC	**Collection Date:**	8/30/2013 8:30:00 AM
Project:	Plastech Engineered Products Site		
Lab ID:	1309041-002	**Matrix:**	Solid
Client Sample ID:	PL-SL-02		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Tetrachloroethene	ND	200		µg/L	200	9/7/2013 5:41 PM
Trichloroethene	ND	200		µg/L	200	9/7/2013 5:41 PM
Vinyl chloride	ND	200		µg/L	200	9/7/2013 5:41 PM
Surr: 4-Bromofluorobenzene	98.5	75-120		%REC	200	9/7/2013 5:41 PM
Surr: Dibromofluoromethane	95.2	85-115		%REC	200	9/7/2013 5:41 PM
Surr: Toluene-d8	93.7	85-120		%REC	200	9/7/2013 5:41 PM
Ignitability		**Method: SW1030**				**Analyst: JE**
Ignitability	DNI	0.10		mm/sec	1	9/4/2013 10:00 AM
Solid pH Measured in Water at Reported Temperature		**Method: SW9045D**				**Analyst: JE**
Hydrogen Ion (pH)	7.18			pH Units	1	9/4/2013 9:30 AM
Temperature	20.6			°C	1	9/4/2013 9:30 AM

RTI Laboratories - Analytical Report

WO#: 1309041

Date Reported: 9/10/2013
Original

Client:	Environmental Restoration LLC	**Collection Date:**	8/30/2013 8:30:00 AM
Project:	Plastech Engineered Products Site		
Lab ID:	1309041-003	**Matrix:**	Liquid
Client Sample ID:	PL-BL-03		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
TCLP Metals, VOCs and SVOCs Metals, ICP/OES		**Method: SW6010C**		**SW3020A**		**Analyst: MK**
Arsenic	ND	200		µg/L	1	9/9/2013 1:10 PM
Barium	260	1,000	J	µg/L	1	9/9/2013 1:10 PM
Cadmium	7.0	25	J	µg/L	1	9/9/2013 1:10 PM
Chromium	11	50	J	µg/L	1	9/9/2013 1:10 PM
Lead	93	500	J	µg/L	1	9/9/2013 1:10 PM
Selenium	ND	200		µg/L	1	9/9/2013 1:10 PM
Silver	2.6	100	J	µg/L	1	9/9/2013 1:10 PM
TCLP Metals, VOCs and SVOCs Mercury		**Method: SW7470A**		**SW7470**		**Analyst: AB2**
Mercury	0.44	0.50	J	µg/L	1	9/6/2013 10:56 AM
TCLP Metals, VOCs and SVOCs Semi-Volatile Organic Compounds		**Method: SW8270D**		**SW3510C**		**Analyst: JH1**
2,4,5-Trichlorophenol	ND	150,000		µg/L	100	9/6/2013 3:05 PM
2,4,6-Trichlorophenol	ND	120,000		µg/L	100	9/6/2013 3:05 PM
2,4-Dinitrotoluene	ND	150,000		µg/L	100	9/6/2013 3:05 PM
2-Methylphenol	ND	150,000		µg/L	100	9/6/2013 3:05 PM
3/4 Methylphenol	ND	300,000		µg/L	100	9/6/2013 3:05 PM
Hexachlorobenzene	ND	30,000		µg/L	100	9/6/2013 3:05 PM
Hexachlorobutadiene	ND	30,000		µg/L	100	9/6/2013 3:05 PM
Hexachloroethane	ND	150,000		µg/L	100	9/6/2013 3:05 PM
Nitrobenzene	ND	90,000		µg/L	100	9/6/2013 3:05 PM
Pentachlorophenol	ND	150,000		µg/L	100	9/6/2013 3:05 PM
Pyridine	ND	300,000		µg/L	100	9/6/2013 3:05 PM
Surr: 2,4,6-Tribromophenol	0	40-125	S	%REC	100	9/6/2013 3:05 PM
Surr: 2-Fluorobiphenyl	0	50-110	S	%REC	100	9/6/2013 3:05 PM
Surr: 2-Fluorophenol	0	20-110	S	%REC	100	9/6/2013 3:05 PM
Surr: Nitrobenzene-d5	0	40-110	S	%REC	100	9/6/2013 3:05 PM
Surr: Phenol-d5	0	20-130	S	%REC	100	9/6/2013 3:05 PM
Surr: Terphenyl-d14	0	50-135	S	%REC	100	9/6/2013 3:05 PM
TCLP Metals, VOCs and SVOCs Volatile Organic Compounds		**Method: SW8260B**				**Analyst: AS1**
1,1-Dichloroethene	ND	5,000		µg/L	5000	9/7/2013 6:32 PM
1,2-Dichloroethane	ND	5,000		µg/L	5000	9/7/2013 6:32 PM
1,4-Dichlorobenzene	ND	5,000		µg/L	5000	9/7/2013 6:32 PM
Benzene	ND	5,000		µg/L	5000	9/7/2013 6:32 PM
Carbon tetrachloride	ND	5,000		µg/L	5000	9/7/2013 6:32 PM
Chlorobenzene	ND	5,000		µg/L	5000	9/7/2013 6:32 PM
Chloroform	ND	5,000		µg/L	5000	9/7/2013 6:32 PM
Methyl ethyl ketone	ND	50,000		µg/L	5000	9/7/2013 6:32 PM

RTI Laboratories - Analytical Report

WO#: 1309041

Date Reported: 9/10/2013
Original

Client:	Environmental Restoration LLC	**Collection Date:**	8/30/2013 8:30:00 AM
Project:	Plastech Engineered Products Site		
Lab ID:	1309041-003	**Matrix:**	Liquid
Client Sample ID:	PL-BL-03		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Tetrachloroethene	ND	5,000		µg/L	5000	9/7/2013 6:32 PM
Trichloroethene	ND	5,000		µg/L	5000	9/7/2013 6:32 PM
Vinyl chloride	ND	5,000		µg/L	5000	9/7/2013 6:32 PM
Surr: 4-Bromofluorobenzene	108	75-120		%REC	5000	9/7/2013 6:32 PM
Surr: Dibromofluoromethane	89.7	85-115		%REC	5000	9/7/2013 6:32 PM
Surr: Toluene-d8	94.6	85-120		%REC	5000	9/7/2013 6:32 PM
Ignitability		**Method: SW1010**				**Analyst: JE**
Ignitability	>200	70		°F	1	9/4/2013 10:00 AM
Solid pH Measured in Water at Reported Temperature		**Method: SW9045D**				**Analyst: JE**
Hydrogen Ion (pH)	12.2		E	pH Units	1	9/4/2013 9:30 AM
Temperature	20.5			°C	1	9/4/2013 9:30 AM

RTI Laboratories - Analytical Report

WO#: 1309041

Date Reported: 9/10/2013
Original

Client:	Environmental Restoration LLC	**Collection Date:**	8/30/2013 8:30:00 AM
Project:	Plastech Engineered Products Site		
Lab ID:	1309041-004	**Matrix:**	Liquid
Client Sample ID:	PL-NL-04		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
TCLP Metals, VOCs and SVOCs Metals, ICP/OES		**Method: SW6010C**		**SW3020A**		**Analyst: MK**
Arsenic	73	200	J	µg/L	1	9/9/2013 1:31 PM
Barium	340	1,000	J	µg/L	1	9/9/2013 1:31 PM
Cadmium	12	25	J	µg/L	1	9/9/2013 1:31 PM
Chromium	21	50	J	µg/L	1	9/9/2013 1:31 PM
Lead	46	500	J	µg/L	1	9/9/2013 1:31 PM
Selenium	ND	200		µg/L	1	9/9/2013 1:31 PM
Silver	12	100	J	µg/L	1	9/9/2013 1:31 PM
TCLP Metals, VOCs and SVOCs Mercury		**Method: SW7470A**		**SW7470**		**Analyst: AB2**
Mercury	0.31	0.50	J	µg/L	1	9/6/2013 11:01 AM
Semi-Volatile Organic Compounds		**Method: SW8270D**		**SW3580A**		**Analyst: JH1**
2,4,5-Trichlorophenol	ND	4.8		mg/Kg	1	9/6/2013 4:22 PM
2,4,6-Trichlorophenol	ND	4.8		mg/Kg	1	9/6/2013 4:22 PM
2,4-Dinitrotoluene	ND	4.8		mg/Kg	1	9/6/2013 4:22 PM
2-Methylphenol	ND	19		mg/Kg	1	9/6/2013 4:22 PM
3/4 Methylphenol	ND	19		mg/Kg	1	9/6/2013 4:22 PM
Hexachlorobenzene	ND	4.8		mg/Kg	1	9/6/2013 4:22 PM
Hexachlorobutadiene	ND	4.8		mg/Kg	1	9/6/2013 4:22 PM
Hexachloroethane	ND	4.8		mg/Kg	1	9/6/2013 4:22 PM
Nitrobenzene	ND	4.8		mg/Kg	1	9/6/2013 4:22 PM
Pentachlorophenol	ND	4.8		mg/Kg	1	9/6/2013 4:22 PM
Pyridine	ND	4.8		mg/Kg	1	9/6/2013 4:22 PM
Surr: 2,4,6-Tribromophenol	0	50-130	S	%REC	1	9/6/2013 4:22 PM
Surr: 2-Fluorobiphenyl	0	50-130	S	%REC	1	9/6/2013 4:22 PM
Surr: 2-Fluorophenol	0	50-130	S	%REC	1	9/6/2013 4:22 PM
Surr: Nitrobenzene-d5	0	50-130	S	%REC	1	9/6/2013 4:22 PM
Surr: Phenol-d5	0	50-130	S	%REC	1	9/6/2013 4:22 PM
Surr: Terphenyl-d14	0	50-130	S	%REC	1	9/6/2013 4:22 PM
TCLP Metals, VOCs and SVOCs Volatile Organic Compounds		**Method: SW8260B**				**Analyst: AS1**
1,1-Dichloroethene	ND	5,000		µg/L	5000	9/7/2013 7:47 PM
1,2-Dichloroethane	ND	5,000		µg/L	5000	9/7/2013 7:47 PM
1,4-Dichlorobenzene	ND	5,000		µg/L	5000	9/7/2013 7:47 PM
Benzene	ND	5,000		µg/L	5000	9/7/2013 7:47 PM
Carbon tetrachloride	ND	5,000		µg/L	5000	9/7/2013 7:47 PM
Chlorobenzene	ND	5,000		µg/L	5000	9/7/2013 7:47 PM
Chloroform	ND	5,000		µg/L	5000	9/7/2013 7:47 PM
Methyl ethyl ketone	ND	50,000		µg/L	5000	9/7/2013 7:47 PM
Tetrachloroethene	ND	5,000		µg/L	5000	9/7/2013 7:47 PM

RTI Laboratories - Analytical Report

WO#: 1309041

Date Reported: 9/10/2013
Original

Client:	Environmental Restoration LLC	**Collection Date:**	8/30/2013 8:30:00 AM
Project:	Plastech Engineered Products Site		
Lab ID:	1309041-004	**Matrix:**	Liquid
Client Sample ID:	PL-NL-04		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Trichloroethene	ND	5,000		µg/L	5000	9/7/2013 7:47 PM
Vinyl chloride	ND	5,000		µg/L	5000	9/7/2013 7:47 PM
Surr: 4-Bromofluorobenzene	104	75-120		%REC	5000	9/7/2013 7:47 PM
Surr: Dibromofluoromethane	93.5	85-115		%REC	5000	9/7/2013 7:47 PM
Surr: Toluene-d8	93.3	85-120		%REC	5000	9/7/2013 7:47 PM
Ignitability		**Method: SW1010**				**Analyst: JE**
Ignitability	>200	70		°F	1	9/4/2013 10:00 AM
Solid pH Measured in Water at Reported Temperature		**Method: SW9045D**				**Analyst: JE**
Hydrogen Ion (pH)	7.42			pH Units	1	9/4/2013 9:30 AM
Temperature	20.1			°C	1	9/4/2013 9:30 AM

RTI Laboratories - Analytical Report

WO#: 1309041

Date Reported: 9/10/2013
Original

Client:	Environmental Restoration LLC	**Collection Date:**	8/30/2013 8:30:00 AM
Project:	Plastech Engineered Products Site		
Lab ID:	1309041-005	**Matrix:**	Liquid/Solid
Client Sample ID:	PL-Trench-05		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Polychlorinated Biphenyls		**Method: SW8082A**		**SW3550C**		**Analyst: MB**
Aroclor 1016	ND	190		µg/Kg	1	9/7/2013 4:46 AM
Aroclor 1221	ND	190		µg/Kg	1	9/7/2013 4:46 AM
Aroclor 1232	ND	190		µg/Kg	1	9/7/2013 4:46 AM
Aroclor 1242	ND	190		µg/Kg	1	9/7/2013 4:46 AM
Aroclor 1248	ND	190		µg/Kg	1	9/7/2013 4:46 AM
Aroclor 1254	ND	190		µg/Kg	1	9/7/2013 4:46 AM
Aroclor 1260	ND	190		µg/Kg	1	9/7/2013 4:46 AM
Aroclor 1262	ND	190		µg/Kg	1	9/7/2013 4:46 AM
Total PCBs	ND	190		µg/Kg	1	9/7/2013 4:46 AM
Surr: Tetrachloro-m-xylene	65.2	60-125		%REC	1	9/7/2013 4:46 AM
Surr: Decachlorobiphenyl	96.4	60-125		%REC	1	9/7/2013 4:46 AM
TCLP Metals, VOCs and SVOCs Metals, ICP/OES		**Method: SW6010C**		**SW3020A**		**Analyst: MK**
Arsenic	ND	40		µg/L	1	9/9/2013 12:36 PM
Barium	980	200		µg/L	1	9/9/2013 12:36 PM
Cadmium	29	5.0		µg/L	1	9/9/2013 12:36 PM
Chromium	32	10		µg/L	1	9/9/2013 12:36 PM
Lead	ND	100		µg/L	1	9/9/2013 12:36 PM
Selenium	ND	40		µg/L	1	9/9/2013 12:36 PM
Silver	ND	20		µg/L	1	9/9/2013 12:36 PM
TCLP Metals, VOCs and SVOCs Mercury		**Method: SW7470A**		**SW7470**		**Analyst: AB2**
Mercury	0.071	0.20	J	µg/L	1	9/6/2013 10:51 AM
TCLP Metals, VOCs and SVOCs Semi-Volatile Organic Compounds		**Method: SW8270D**		**SW3510C**		**Analyst: JH1**
2,4,5-Trichlorophenol	ND	250		µg/L	10	9/6/2013 2:14 PM
2,4,6-Trichlorophenol	ND	200		µg/L	10	9/6/2013 2:14 PM
2,4-Dinitrotoluene	ND	250		µg/L	10	9/6/2013 2:14 PM
2-Methylphenol	ND	250		µg/L	10	9/6/2013 2:14 PM
3/4 Methylphenol	ND	500		µg/L	10	9/6/2013 2:14 PM
Hexachlorobenzene	ND	50		µg/L	10	9/6/2013 2:14 PM
Hexachlorobutadiene	ND	50		µg/L	10	9/6/2013 2:14 PM
Hexachloroethane	ND	250		µg/L	10	9/6/2013 2:14 PM
Nitrobenzene	ND	150		µg/L	10	9/6/2013 2:14 PM
Pentachlorophenol	ND	250		µg/L	10	9/6/2013 2:14 PM
Pyridine	ND	500		µg/L	10	9/6/2013 2:14 PM
Surr: 2,4,6-Tribromophenol	82.8	40-125		%REC	10	9/6/2013 2:14 PM
Surr: 2-Fluorobiphenyl	74.0	50-110		%REC	10	9/6/2013 2:14 PM
Surr: 2-Fluorophenol	0	20-110	S	%REC	10	9/6/2013 2:14 PM
Surr: Nitrobenzene-d5	72.8	40-110		%REC	10	9/6/2013 2:14 PM

RTI Laboratories - Analytical Report

WO#: 1309041

Date Reported: 9/10/2013
Original

Client:	Environmental Restoration LLC	**Collection Date:**	8/30/2013 8:30:00 AM
Project:	Plastech Engineered Products Site		
Lab ID:	1309041-005	**Matrix:**	Liquid/Solid
Client Sample ID:	PL-Trench-05		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Surr: Phenol-d5	0	20-130	S	%REC	10	9/6/2013 2:14 PM
Surr: Terphenyl-d14	90.8	50-135		%REC	10	9/6/2013 2:14 PM
TCLP Metals, VOCs and SVOCs Volatile Organic Compounds		**Method: SW8260B**				**Analyst: AS1**
1,1-Dichloroethene	ND	200		µg/L	200	9/7/2013 6:06 PM
1,2-Dichloroethane	ND	200		µg/L	200	9/7/2013 6:06 PM
1,4-Dichlorobenzene	ND	200		µg/L	200	9/7/2013 6:06 PM
Benzene	ND	200		µg/L	200	9/7/2013 6:06 PM
Carbon tetrachloride	ND	200		µg/L	200	9/7/2013 6:06 PM
Chlorobenzene	ND	200		µg/L	200	9/7/2013 6:06 PM
Chloroform	ND	200		µg/L	200	9/7/2013 6:06 PM
Methyl ethyl ketone	35,000	2,000		µg/L	200	9/7/2013 6:06 PM
Tetrachloroethene	ND	200		µg/L	200	9/7/2013 6:06 PM
Trichloroethene	ND	200		µg/L	200	9/7/2013 6:06 PM
Vinyl chloride	ND	200		µg/L	200	9/7/2013 6:06 PM
Surr: 4-Bromofluorobenzene	101	75-120		%REC	200	9/7/2013 6:06 PM
Surr: Dibromofluoromethane	92.2	85-115		%REC	200	9/7/2013 6:06 PM
Surr: Toluene-d8	94.5	85-120		%REC	200	9/7/2013 6:06 PM
Ignitability		**Method: SW1030**				**Analyst: JE**
Ignitability	4.0	0.10		mm/sec	1	9/4/2013 10:00 AM
Solid pH Measured in Water at Reported Temperature		**Method: SW9045D**				**Analyst: JE**
Hydrogen Ion (pH)	5.41			pH Units	1	9/4/2013 9:30 AM
Temperature	20.1			°C	1	9/4/2013 9:30 AM

RTI Laboratories - Analytical Report

WO#: 1309041

Date Reported: 9/10/2013
Original

Client:	Environmental Restoration LLC	**Collection Date:**	8/30/2013 8:30:00 AM
Project:	Plastech Engineered Products Site		
Lab ID:	1309041-006	**Matrix:**	Oil
Client Sample ID:	PL-Transf-06		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Polychlorinated Biphenyls		**Method: SW8082A**				**Analyst: MB**
Aroclor 1016	ND	0.96		mg/Kg	1	9/7/2013 10:36 PM
Aroclor 1221	ND	0.96		mg/Kg	1	9/7/2013 10:36 PM
Aroclor 1232	ND	0.96		mg/Kg	1	9/7/2013 10:36 PM
Aroclor 1242	ND	0.96		mg/Kg	1	9/7/2013 10:36 PM
Aroclor 1248	ND	0.96		mg/Kg	1	9/7/2013 10:36 PM
Aroclor 1254	ND	0.96		mg/Kg	1	9/7/2013 10:36 PM
Aroclor 1260	0.48	0.96	J	mg/Kg	1	9/7/2013 10:36 PM
Aroclor 1262	ND	0.96		mg/Kg	1	9/7/2013 10:36 PM
Total PCBs	0.48	0.96	J	mg/Kg	1	9/7/2013 10:36 PM
Surr: Tetrachloro-m-xylene	75.5	70-130		%REC	1	9/7/2013 10:36 PM
Surr: Decachlorobiphenyl	91.5	70-130		%REC	1	9/7/2013 10:36 PM
Total Halogens by IC **Inorganic Anions**		**Method: SW9056A**		**SW5050**		**Analyst: CR**
Bromide	ND	0.13		mg/Kg	1	9/7/2013 12:43 AM
Chloride	460	0.25		mg/Kg	1	9/7/2013 12:43 AM
Fluoride	7.3	0.13		mg/Kg	1	9/7/2013 12:43 AM
Heat Content, BTU		**Method: D240**		**SW5050**		**Analyst: MB3**
BTU	20,000	1.0		BTU/lb.	1	9/6/2013 10:29 AM
TCLP Metals, VOCs and SVOCs **Metals, ICP/OES**		**Method: SW6010C**		**SW3020A**		**Analyst: MK**
Arsenic	ND	200		µg/L	1	9/9/2013 1:58 PM
Barium	730	1,000	J	µg/L	1	9/9/2013 1:58 PM
Cadmium	6.3	25	J	µg/L	1	9/9/2013 1:58 PM
Chromium	ND	50		µg/L	1	9/9/2013 1:58 PM
Lead	27	500	J	µg/L	1	9/9/2013 1:58 PM
Selenium	ND	200		µg/L	1	9/9/2013 1:58 PM
Silver	4.6	100	J	µg/L	1	9/9/2013 1:58 PM
TCLP Metals, VOCs and SVOCs **Mercury**		**Method: SW7470A**		**SW7470**		**Analyst: AB2**
Mercury	0.42	0.50	J	µg/L	1	9/6/2013 11:03 AM
Semi-Volatile Organic Compounds		**Method: SW8270D**		**SW3580A**		**Analyst: JH1**
2,4,5-Trichlorophenol	ND	4.5		mg/Kg	1	9/6/2013 3:56 PM
2,4,6-Trichlorophenol	ND	4.5		mg/Kg	1	9/6/2013 3:56 PM
2,4-Dinitrotoluene	ND	4.5		mg/Kg	1	9/6/2013 3:56 PM
2-Methylphenol	ND	18		mg/Kg	1	9/6/2013 3:56 PM
3 & 4-Methylphenol	ND	18		mg/Kg	1	9/6/2013 3:56 PM
Hexachlorobenzene	ND	4.5		mg/Kg	1	9/6/2013 3:56 PM
Hexachlorobutadiene	ND	4.5		mg/Kg	1	9/6/2013 3:56 PM

RTI Laboratories - Analytical Report

WO#: 1309041

Date Reported: 9/10/2013
Original

Client:	Environmental Restoration LLC	**Collection Date:**	8/30/2013 8:30:00 AM
Project:	Plastech Engineered Products Site		
Lab ID:	1309041-006	**Matrix:**	Oil
Client Sample ID:	PL-Transf-06		

Analysis	Result	RL	Qual	Units	DF	Date Analyzed
Hexachloroethane	ND	4.5		mg/Kg	1	9/6/2013 3:56 PM
Nitrobenzene	ND	4.5		mg/Kg	1	9/6/2013 3:56 PM
Pentachlorophenol	ND	4.5		mg/Kg	1	9/6/2013 3:56 PM
Pyridine	ND	4.5		mg/Kg	1	9/6/2013 3:56 PM
Surr: 2,4,6-Tribromophenol	0	50-130	S	%REC	1	9/6/2013 3:56 PM
Surr: 2-Fluorobiphenyl	0	50-130	S	%REC	1	9/6/2013 3:56 PM
Surr: 2-Fluorophenol	0	50-130	S	%REC	1	9/6/2013 3:56 PM
Surr: Nitrobenzene-d5	0	50-130	S	%REC	1	9/6/2013 3:56 PM
Surr: Phenol-d5	0	50-130	S	%REC	1	9/6/2013 3:56 PM
Surr: Terphenyl-d14	0	50-130	S	%REC	1	9/6/2013 3:56 PM
TCLP Metals, VOCs and SVOCs Volatile Organic Compounds		**Method: SW8260B**				**Analyst: AS1**
1,1-Dichloroethene	ND	50,000		µg/L	50000	9/7/2013 8:13 PM
1,2-Dichloroethane	ND	50,000		µg/L	50000	9/7/2013 8:13 PM
1,4-Dichlorobenzene	ND	50,000		µg/L	50000	9/7/2013 8:13 PM
Benzene	ND	50,000		µg/L	50000	9/7/2013 8:13 PM
Carbon tetrachloride	ND	50,000		µg/L	50000	9/7/2013 8:13 PM
Chlorobenzene	ND	50,000		µg/L	50000	9/7/2013 8:13 PM
Chloroform	ND	50,000		µg/L	50000	9/7/2013 8:13 PM
Methyl ethyl ketone	ND	500,000		µg/L	50000	9/7/2013 8:13 PM
Tetrachloroethene	ND	50,000		µg/L	50000	9/7/2013 8:13 PM
Trichloroethene	ND	50,000		µg/L	50000	9/7/2013 8:13 PM
Vinyl chloride	ND	50,000		µg/L	50000	9/7/2013 8:13 PM
Surr: 4-Bromofluorobenzene	104	75-120		%REC	50000	9/7/2013 8:13 PM
Surr: Dibromofluoromethane	92.9	85-115		%REC	50000	9/7/2013 8:13 PM
Surr: Toluene-d8	93.4	85-120		%REC	50000	9/7/2013 8:13 PM
Ignitability		**Method: SW1010**				**Analyst: JE**
Ignitability	>200	70		°F	1	9/4/2013 10:00 AM
Solid pH Measured in Water at Reported Temperature		**Method: SW9045D**				**Analyst: JE**
Hydrogen Ion (pH)	6.98			pH Units	1	9/4/2013 9:30 AM
Temperature	20.4			°C	1	9/4/2013 9:30 AM

RTI Laboratories - DATES REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1309041-001A	PL-OL-01	8/30/2013 8:30 AM	Oil				
				ASTM-D240-Heat Content, BTU	9/4/2013 2:00 PM	9/6/2013 10:26 AM	9/6/2013 10:29 AM
				SW_1010-Ignitability	9/4/2013 2:00 PM		9/4/2013 10:00 AM
				SW_9056S-Inorganic Anions	9/4/2013 2:00 PM	9/6/2013 10:26 AM	9/7/2013 12:23 AM
				SW_7470A-Mercury	9/4/2013 2:00 PM	9/5/2013 9:56 AM	9/6/2013 10:35 AM
				SW_7470A-Mercury	9/4/2013 2:00 PM	9/5/2013 9:56 AM	9/6/2013 11:17 AM
				SW_6010A-Metals, ICP/OES	9/4/2013 2:00 PM	9/5/2013 9:15 AM	9/9/2013 12:22 PM
				SW_8082O-Polychlorinated Biphenyls	9/4/2013 2:00 PM	9/5/2013 12:39 PM	9/7/2013 9:52 PM
				SW_8270A-Semi-Volatile Organic Compounds	9/4/2013 2:00 PM	9/5/2013 10:33 AM	9/6/2013 12:57 PM
				SW_9045-Solid pH Measured in Water at Reported Temperature	9/4/2013 2:00 PM		9/4/2013 9:30 AM
				SW_8260A-Volatile Organic Compounds	9/4/2013 2:00 PM	9/7/2013 5:16 PM	9/7/2013 5:16 PM
1309041-002A	PL-SL-02	8/30/2013 8:30 AM	Solid				
				SW_1030S-Ignitability	9/4/2013 2:00 PM		9/4/2013 10:00 AM
				SW_7470A-Mercury	9/4/2013 2:00 PM	9/5/2013 9:56 AM	9/6/2013 10:38 AM
				SW_7470A-Mercury	9/4/2013 2:00 PM	9/5/2013 9:56 AM	9/6/2013 11:18 AM
				SW_6010A-Metals, ICP/OES	9/4/2013 2:00 PM	9/5/2013 9:15 AM	9/9/2013 12:29 PM
				SW_8270A-Semi-Volatile Organic Compounds	9/4/2013 2:00 PM	9/5/2013 10:33 AM	9/6/2013 12:32 PM
				SW_9045-Solid pH Measured in Water at Reported Temperature	9/4/2013 2:00 PM		9/4/2013 9:30 AM
				SW_8260A-Volatile Organic Compounds	9/4/2013 2:00 PM	9/7/2013 5:41 PM	9/7/2013 5:41 PM
1309041-003A	PL-BL-03	8/30/2013 8:30 AM	Liquid				
				SW_1010-Ignitability	9/4/2013 11:00 AM		9/4/2013 10:00 AM
				SW_7470A-Mercury	9/4/2013 11:00 AM	9/5/2013 9:57 AM	9/6/2013 10:56 AM
				SW_6010A-Metals, ICP/OES	9/4/2013 11:00 AM	9/5/2013 9:15 AM	9/9/2013 1:10 PM
				SW_8270A-Semi-Volatile Organic Compounds	9/4/2013 11:00 AM	9/5/2013 10:33 AM	9/6/2013 3:05 PM
				SW_9045-Solid pH Measured in Water at Reported Temperature	9/4/2013 11:00 AM		9/4/2013 9:30 AM
				SW_8260A-Volatile Organic Compounds	9/4/2013 11:00 AM	9/7/2013 6:32 PM	9/7/2013 6:32 PM
1309041-004A	PL-NL-04	8/30/2013 8:30 AM	Liquid				
				SW_1010-Ignitability	9/4/2013 11:00 AM		9/4/2013 10:00 AM
				SW_7470A-Mercury	9/4/2013 11:00 AM	9/5/2013 9:57 AM	9/6/2013 11:01 AM
				SW_6010A-Metals, ICP/OES	9/4/2013 11:00 AM	9/5/2013 9:15 AM	9/9/2013 1:31 PM

RTI Laboratories - DATES REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	Leachate Date	Prep Date	Analysis Date
1309041-004A	PL-NL-04	8/30/2013 8:30 AM	Liquid				
				SW_8270-O-Semi-Volatile Organic Compounds	9/4/2013 11:00 AM	9/5/2013 1:16 PM	9/6/2013 4:22 PM
				SW_9045-Solid pH Measured in Water at Reported Temperature	9/4/2013 11:00 AM		9/4/2013 9:30 AM
				SW_8260A-Volatile Organic Compounds	9/4/2013 11:00 AM	9/7/2013 7:47 PM	9/7/2013 7:47 PM
1309041-005A	PL-Trench-05	8/30/2013 8:30 AM	Liquid/Solid				
				SW_1030S-Ignitability	9/4/2013 2:00 PM		9/4/2013 10:00 AM
				SW_7470A-Mercury	9/4/2013 2:00 PM	9/5/2013 9:56 AM	9/6/2013 10:51 AM
				SW_6010A-Metals, ICP/OES	9/4/2013 2:00 PM	9/5/2013 9:15 AM	9/9/2013 12:36 PM
				SW_8082S-Polychlorinated Biphenyls	9/4/2013 2:00 PM	9/4/2013 8:46 AM	9/7/2013 4:46 AM
				SW_8270A-Semi-Volatile Organic Compounds	9/4/2013 2:00 PM	9/5/2013 10:33 AM	9/6/2013 2:14 PM
				SW_9045-Solid pH Measured in Water at Reported Temperature	9/4/2013 2:00 PM		9/4/2013 9:30 AM
				SW_8260A-Volatile Organic Compounds	9/4/2013 2:00 PM	9/7/2013 6:06 PM	9/7/2013 6:06 PM
1309041-006A	PL-Transf-06	8/30/2013 8:30 AM	Oil				
				ASTM-D240-Heat Content, BTU	9/4/2013 11:00 AM	9/6/2013 10:26 AM	9/6/2013 10:29 AM
				SW_1010-Ignitability	9/4/2013 11:00 AM		9/4/2013 10:00 AM
				SW_9056S-Inorganic Anions	9/4/2013 11:00 AM	9/6/2013 10:26 AM	9/7/2013 12:43 AM
				SW_7470A-Mercury	9/4/2013 11:00 AM	9/5/2013 9:57 AM	9/6/2013 11:03 AM
				SW_6010A-Metals, ICP/OES	9/4/2013 11:00 AM	9/5/2013 9:15 AM	9/9/2013 1:52 PM
				SW_6010A-Metals, ICP/OES	9/4/2013 11:00 AM	9/5/2013 9:15 AM	9/9/2013 1:58 PM
				SW_8082O-Polychlorinated Biphenyls	9/4/2013 11:00 AM	9/5/2013 12:39 PM	9/7/2013 10:36 PM
				SW_8270-O-Semi-Volatile Organic Compounds	9/4/2013 11:00 AM	9/5/2013 1:16 PM	9/6/2013 3:56 PM
				SW_9045-Solid pH Measured in Water at Reported Temperature	9/4/2013 11:00 AM		9/4/2013 9:30 AM
				SW_8260A-Volatile Organic Compounds	9/4/2013 11:00 AM	9/7/2013 8:13 PM	9/7/2013 8:13 PM

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID: 30782**

Sample ID:	1308891-002AMS	Samp Type:	MS	Test Code:	SW_8082S	Units:	µg/Kg	Prep Date:	9/4/2013	RunNo:	61268
Client ID:	ZZZZZZ	Batch ID:	30782	TestNo:	SW8082	SW3550C		Analysis Date:	9/6/2013	SeqNo:	1200693

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	120	32	160.5	0	76.2	40	140				
Aroclor 1260	130	32	160.5	0	81.5	60	130				
Surr: Tetrachloro-m-xylene	5.8		8.026		72.8	60	125				
Surr: Decachlorobiphenyl	7.1		8.026		88.3	60	125				

Sample ID:	1308891-002AMSD	Samp Type:	MSD	Test Code:	SW_8082S	Units:	µg/Kg	Prep Date:	9/4/2013	RunNo:	61268
Client ID:	ZZZZZZ	Batch ID:	30782	TestNo:	SW8082	SW3550C		Analysis Date:	9/6/2013	SeqNo:	1200694

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	130	31	156.5	0	80.1	40	140	122.3	2.49	25	
Aroclor 1260	130	31	156.5	0	84.6	60	130	130.8	1.22	25	
Surr: Tetrachloro-m-xylene	5.9		7.825		75.4	60	125		0	25	
Surr: Decachlorobiphenyl	7.1		7.825		90.2	60	125		0	25	

Sample ID:	LCS-30782	Samp Type:	LCS	Test Code:	SW_8082S	Units:	µg/Kg	Prep Date:	9/4/2013	RunNo:	61268
Client ID:	LCSS	Batch ID:	30782	TestNo:	SW8082	SW3550C		Analysis Date:	9/6/2013	SeqNo:	1200727

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	140	32	161.3	0	85.4	40	140				
Aroclor 1260	140	32	161.3	0	85.2	60	130				
Surr: Tetrachloro-m-xylene	7.1		8.067		88.2	60	125				
Surr: Decachlorobiphenyl	7.4		8.067		91.8	60	125				

Sample ID:	MB-30782	Samp Type:	MBLK	Test Code:	SW_8082S	Units:	µg/Kg	Prep Date:	9/4/2013	RunNo:	61268
Client ID:	PBS	Batch ID:	30782	TestNo:	SW8082	SW3550C		Analysis Date:	9/6/2013	SeqNo:	1200729

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	ND	33									
Aroclor 1221	ND	33									
Aroclor 1232	ND	33									
Aroclor 1242	ND	33									
Aroclor 1248	ND	33									

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID: 30782**

Sample ID:	**MB-30782**	Samp Type:	**MBLK**	Test Code:	**SW_8082S**	Units:	**µg/Kg**	Prep Date:	**9/4/2013**	RunNo:	**61268**	
Client ID:	**PBS**	Batch ID:	**30782**	TestNo:	**SW8082**	**SW3550C**		Analysis Date:	**9/6/2013**	SeqNo:	**1200729**	

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	ND	33									
Aroclor 1260	ND	33									
Aroclor 1262	ND	33									
Total PCBs	ND	33									
Surr: Tetrachloro-m-xylene	7.0		8.218		84.7	60	125				
Surr: Decachlorobiphenyl	8.1		8.218		98.8	60	125				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID: 30799**

Sample ID:	MB-30799	Samp Type:	MBLK	Test Code:	SW_6010A	Units:	µg/L	Prep Date:	9/5/2013	RunNo:	61281
Client ID:	PBW	Batch ID:	30799	TestNo:	SW6010B	SW3020A		Analysis Date:	9/9/2013	SeqNo:	1200895

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	ND	40									
Barium	22	200									J
Cadmium	ND	5.0									
Chromium	ND	10									
Lead	ND	100									
Selenium	ND	40									
Silver	0.52	20									J

Sample ID:	LCS-30799	Samp Type:	LCS	Test Code:	SW_6010A	Units:	µg/L	Prep Date:	9/5/2013	RunNo:	61281
Client ID:	LCSW	Batch ID:	30799	TestNo:	SW6010B	SW3020A		Analysis Date:	9/9/2013	SeqNo:	1200896

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	540	40	500.0	0	109	80	120				
Barium	520	200	500.0	0	104	80	120				
Cadmium	480	5.0	500.0	0	95.5	80	120				
Chromium	510	10	500.0	0	102	80	120				
Lead	500	100	500.0	0	100	80	120				
Selenium	510	40	500.0	0	102	80	120				
Silver	590	20	500.0	0	118	80	120				

Sample ID:	1308B49-001AMS	Samp Type:	MS	Test Code:	SW_6010A	Units:	µg/L	Prep Date:	9/5/2013	RunNo:	61281
Client ID:	ZZZZZZ	Batch ID:	30799	TestNo:	SW6010B	SW3020A		Analysis Date:	9/9/2013	SeqNo:	1200898

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	560	40	500.0	0	112	80	120				
Barium	1,100	200	500.0	539.7	103	80	120				
Cadmium	470	5.0	500.0	0.3084	94.0	80	120				
Chromium	520	10	500.0	2.077	103	80	120				
Lead	500	100	500.0	6.251	99.7	80	120				
Selenium	520	40	500.0	0	104	80	120				
Silver	600	20	500.0	0.6202	120	80	120				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID: 30799**

Sample ID:	**1308B49-001AMSD**	Samp Type:	**MSD**	Test Code:	**SW_6010A**	Units:	**µg/L**	Prep Date:	**9/5/2013**	RunNo:	**61281**
Client ID:	**ZZZZZZ**	Batch ID:	**30799**	TestNo:	**SW6010B**	**SW3020A**		Analysis Date:	**9/9/2013**	SeqNo:	**1200899**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	560	40	500.0	0	112	80	120	558.1	0.341	20	
Barium	1,000	200	500.0	539.7	100	80	120	1,054	1.37	20	
Cadmium	470	5.0	500.0	0.3084	93.9	80	120	470.4	0.134	20	
Chromium	520	10	500.0	2.077	104	80	120	517.7	0.435	20	
Lead	510	100	500.0	6.251	101	80	120	504.5	1.69	20	
Selenium	520	40	500.0	0	104	80	120	521.2	0.452	20	
Silver	610	20	500.0	0.6202	122	80	120	599.0	1.95	20	S

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID: 30800**

Sample ID:	1309041-003AMS	Samp Type:	MS	Test Code:	SW_6010A	Units:	µg/L	Prep Date:	9/5/2013	RunNo:	61281
Client ID:	PL-BL-03	Batch ID:	30800	TestNo:	SW6010B	SW3020A		Analysis Date:	9/9/2013	SeqNo:	1200878

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	3,000	200	2,500	0	118	80	120				
Barium	2,700	1,000	2,500	257.2	95.8	80	120				
Cadmium	2,100	25	2,500	6.954	84.2	80	120				
Chromium	2,600	50	2,500	11.09	102	80	120				
Lead	2,200	500	2,500	93.31	85.0	80	120				
Selenium	2,400	200	2,500	0	95.0	80	120				
Silver	2,900	100	2,500	2.565	116	80	120				

Sample ID:	1309041-003AMSD	Samp Type:	MSD	Test Code:	SW_6010A	Units:	µg/L	Prep Date:	9/5/2013	RunNo:	61281
Client ID:	PL-BL-03	Batch ID:	30800	TestNo:	SW6010B	SW3020A		Analysis Date:	9/9/2013	SeqNo:	1200879

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	3,100	200	2,500	0	124	80	120	2,961	4.45	20	S
Barium	2,800	1,000	2,500	257.2	100	80	120	2,653	3.93	20	
Cadmium	2,200	25	2,500	6.954	87.6	80	120	2,111	3.97	20	
Chromium	2,700	50	2,500	11.09	106	80	120	2,568	3.61	20	
Lead	2,300	500	2,500	93.31	88.0	80	120	2,217	3.33	20	
Selenium	2,500	200	2,500	0	99.1	80	120	2,374	4.28	20	
Silver	3,000	100	2,500	2.565	120	80	120	2,906	3.68	20	S

Sample ID:	MB-30800	Samp Type:	MBLK	Test Code:	SW_6010A	Units:	µg/L	Prep Date:	9/5/2013	RunNo:	61281
Client ID:	PBW	Batch ID:	30800	TestNo:	SW6010B	SW3020A		Analysis Date:	9/9/2013	SeqNo:	1200905

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	ND	40									
Barium	ND	200									
Cadmium	0.67	5.0									J
Chromium	ND	10									
Lead	ND	100									
Selenium	ND	40									
Silver	0.37	20									J

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID: 30800**

Sample ID:	**LCS-30800**	Samp Type:	**LCS**	Test Code:	**SW_6010A**	Units:	**µg/L**	Prep Date:	**9/5/2013**	RunNo:	**61281**
Client ID:	**LCSW**	Batch ID:	**30800**	TestNo:	**SW6010B**	**SW3020A**		Analysis Date:	**9/9/2013**	SeqNo:	**1200971**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Arsenic	550	40	500.0	0	110	80	120				
Barium	510	200	500.0	0	102	80	120				
Cadmium	490	5.0	500.0	0	97.3	80	120				
Chromium	540	10	500.0	0	108	80	120				
Lead	530	100	500.0	0	106	80	120				
Selenium	470	40	500.0	0	94.7	80	120				
Silver	550	20	500.0	0	110	80	120				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID: 30803**

Sample ID:	MB-30803	Samp Type:	MBLK	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	9/5/2013	RunNo:	61202
Client ID:	PBW	Batch ID:	30803	TestNo:	SW7470A	SW7470		Analysis Date:	9/6/2013	SeqNo:	1199937

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Mercury	ND	0.20									

Sample ID:	LCS-30803	Samp Type:	LCS	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	9/5/2013	RunNo:	61202
Client ID:	LCSW	Batch ID:	30803	TestNo:	SW7470A	SW7470		Analysis Date:	9/6/2013	SeqNo:	1199938

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Mercury	0.98	0.20	1.000	0	98.5	80	120				

Sample ID:	1308B49-001AMS	Samp Type:	MS	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	9/5/2013	RunNo:	61202
Client ID:	ZZZZZZ	Batch ID:	30803	TestNo:	SW7470A	SW7470		Analysis Date:	9/6/2013	SeqNo:	1199940

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Mercury	1.2	0.20	1.000	0	124	80	120				S

Sample ID:	1308B49-001AMSD	Samp Type:	MSD	Test Code:	SW_7470A	Units:	µg/L	Prep Date:	9/5/2013	RunNo:	61202
Client ID:	ZZZZZZ	Batch ID:	30803	TestNo:	SW7470A	SW7470		Analysis Date:	9/6/2013	SeqNo:	1199941

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Mercury	0.98	0.20	1.000	0	98.3	80	120	1.241	23.2	20	R

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID: 30804**

Sample ID:	**MB-30804**	Samp Type:	**MBLK**	Test Code:	**SW_7470A**	Units:	**µg/L**	Prep Date:	**9/5/2013**	RunNo:	**61202**
Client ID:	**PBW**	Batch ID:	**30804**	TestNo:	**SW7470A**	**SW7470**		Analysis Date:	**9/6/2013**	SeqNo:	**1199945**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Mercury	ND	0.20									

Sample ID:	**LCS-30804**	Samp Type:	**LCS**	Test Code:	**SW_7470A**	Units:	**µg/L**	Prep Date:	**9/5/2013**	RunNo:	**61202**
Client ID:	**LCSW**	Batch ID:	**30804**	TestNo:	**SW7470A**	**SW7470**		Analysis Date:	**9/6/2013**	SeqNo:	**1199946**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Mercury	1.0	0.20	1.000	0	100	80	120				

Sample ID:	**1309041-003AMS**	Samp Type:	**MS**	Test Code:	**SW_7470A**	Units:	**µg/L**	Prep Date:	**9/5/2013**	RunNo:	**61202**
Client ID:	**PL-BL-03**	Batch ID:	**30804**	TestNo:	**SW7470A**	**SW7470**		Analysis Date:	**9/6/2013**	SeqNo:	**1199948**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Mercury	1.7	0.50	2.500	0.4400	52.0	80	120				S

Sample ID:	**1309041-003AMSD**	Samp Type:	**MSD**	Test Code:	**SW_7470A**	Units:	**µg/L**	Prep Date:	**9/5/2013**	RunNo:	**61202**
Client ID:	**PL-BL-03**	Batch ID:	**30804**	TestNo:	**SW7470A**	**SW7470**		Analysis Date:	**9/6/2013**	SeqNo:	**1199949**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Mercury	1.9	0.50	2.500	0.4400	56.9	80	120	1.740	6.80	20	S

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID: 30805**

Sample ID:	LCS-30805	Samp Type:	LCS	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/5/2013	RunNo:	61215
Client ID:	LCSW	Batch ID:	30805	TestNo:	SW8270C	SW3510C		Analysis Date:	9/6/2013	SeqNo:	1199512

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	30	25	50.00	0	59.0	50	110				
2,4,6-Trichlorophenol	26	20	50.00	0	52.7	50	115				
2,4-Dinitrotoluene	37	25	50.00	0	74.2	50	120				
2-Methylphenol	25	25	50.00	0	50.6	40	110				
3/4 Methylphenol	55	50	100.0	0	54.7	30	110				
Hexachlorobenzene	33	5.0	50.00	0	65.3	50	110				
Hexachlorobutadiene	20	5.0	50.00	0	39.5	25	105				
Hexachloroethane	21	25	50.00	0	42.3	30	100				J
Nitrobenzene	28	15	50.00	0	55.8	45	110				
Pentachlorophenol	40	25	50.00	0	80.1	40	115				
Pyridine	33	50	50.00	0	65.9	50	130				Jm
Surr: 2,4,6-Tribromophenol	94		125.0		75.2	40	125				
Surr: 2-Fluorobiphenyl	65		125.0		51.7	50	110				
Surr: 2-Fluorophenol	58		125.0		46.2	20	110				m
Surr: Nitrobenzene-d5	66		125.0		53.0	40	110				
Surr: Phenol-d5	59		125.0		47.4	20	130				
Surr: Terphenyl-d14	150		125.0		123	50	135				

Sample ID:	MB-30805	Samp Type:	MBLK	Test Code:	SW_8270A	Units:	µg/L	Prep Date:	9/5/2013	RunNo:	61215
Client ID:	PBW	Batch ID:	30805	TestNo:	SW8270C	SW3510C		Analysis Date:	9/6/2013	SeqNo:	1199513

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	ND	25									
2,4,6-Trichlorophenol	ND	20									
2,4-Dinitrotoluene	ND	25									
2-Methylphenol	ND	25									
3/4 Methylphenol	ND	50									
Hexachlorobenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Hexachloroethane	ND	25									
Nitrobenzene	ND	15									

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID: 30805**

Sample ID: **MB-30805** Samp Type: **MBLK** Test Code: **SW_8270A** Units: **µg/L** Prep Date: **9/5/2013** RunNo: **61215**

Client ID: **PBW** Batch ID: **30805** TestNo: **SW8270C** **SW3510C** Analysis Date: **9/6/2013** SeqNo: **1199513**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Pentachlorophenol	ND	25									
Pyridine	ND	50									
Surr: 2,4,6-Tribromophenol	96		125.0		77.0	40	125				
Surr: 2-Fluorobiphenyl	71		125.0		56.6	50	110				
Surr: 2-Fluorophenol	63		125.0		50.7	20	110				m
Surr: Nitrobenzene-d5	72		125.0		57.6	40	110				
Surr: Phenol-d5	67		125.0		53.4	20	130				
Surr: Terphenyl-d14	160		125.0		126	50	135				

Sample ID: **LCSD-30805** Samp Type: **LCSD** Test Code: **SW_8270A** Units: **µg/L** Prep Date: **9/5/2013** RunNo: **61215**

Client ID: **LCSS02** Batch ID: **30805** TestNo: **SW8270C** **SW3510C** Analysis Date: **9/6/2013** SeqNo: **1199546**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	26	25	50.00	0	52.0	50	110	29.50	12.6	25	
2,4,6-Trichlorophenol	22	20	50.00	0	44.1	50	115	26.35	17.8	25	S
2,4-Dinitrotoluene	36	25	50.00	0	71.8	50	120	37.10	3.29	25	
2-Methylphenol	21	25	50.00	0	42.3	40	110	25.30	17.9	25	J
3/4 Methylphenol	46	50	100.0	0	45.8	30	110	54.70	17.6	25	J
Hexachlorobenzene	31	5.0	50.00	0	61.5	50	110	32.65	5.99	25	
Hexachlorobutadiene	15	5.0	50.00	0	30.4	25	105	19.75	26.0	25	R
Hexachloroethane	17	25	50.00	0	34.1	30	100	21.15	21.5	25	J
Nitrobenzene	23	15	50.00	0	45.2	45	110	27.90	21.0	25	
Pentachlorophenol	41	25	50.00	0	81.3	40	115	40.05	1.49	25	
Pyridine	32	50	50.00	0	63.7	50	130	32.95	3.40	25	Jm
Surr: 2,4,6-Tribromophenol	93		125.0		74.2	40	125		0	25	
Surr: 2-Fluorobiphenyl	52		125.0		41.8	50	110		0	25	S
Surr: 2-Fluorophenol	48		125.0		38.2	20	110		0	25	m
Surr: Nitrobenzene-d5	54		125.0		43.1	40	110		0	25	
Surr: Phenol-d5	49		125.0		39.0	20	130		0	25	
Surr: Terphenyl-d14	150		125.0		120	50	135		0	25	

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID: 30806**

Sample ID:	1309041-006AMS	Samp Type:	MS	Test Code:	SW_8082O	Units:	mg/Kg	Prep Date:	9/5/2013	RunNo:	61267
Client ID:	PL-Transf-06	Batch ID:	30806	TestNo:	SW8082			Analysis Date:	9/7/2013	SeqNo:	1200665

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	8.1	0.93	9.259	0	87.9	70	130				
Aroclor 1260	8.4	0.93	9.259	0.4832	85.0	70	130				
Surr: Tetrachloro-m-xylene	0.35		0.4630		75.8	70	130				
Surr: Decachlorobiphenyl	0.40		0.4630		86.3	70	130				

Sample ID:	1309041-006AMSD	Samp Type:	MSD	Test Code:	SW_8082O	Units:	mg/Kg	Prep Date:	9/5/2013	RunNo:	61267
Client ID:	PL-Transf-06	Batch ID:	30806	TestNo:	SW8082			Analysis Date:	9/8/2013	SeqNo:	1200666

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	7.8	0.93	9.259	0	84.2	70	130	8.135	4.28	25	
Aroclor 1260	8.4	0.93	9.259	0.4832	85.8	70	130	8.354	0.828	25	
Surr: Tetrachloro-m-xylene	0.33		0.4630		71.2	70	130		0	25	
Surr: Decachlorobiphenyl	0.44		0.4630		94.6	70	130		0	25	

Sample ID:	LCS-30806	Samp Type:	LCS	Test Code:	SW_8082O	Units:	mg/Kg	Prep Date:	9/5/2013	RunNo:	61267
Client ID:	LCSW	Batch ID:	30806	TestNo:	SW8082			Analysis Date:	9/7/2013	SeqNo:	1200678

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	9.6	1.0	10.00	0	95.7	70	130				
Aroclor 1260	10	1.0	10.00	0	99.5	70	130				
Surr: Tetrachloro-m-xylene	0.48		0.5000		95.7	70	130				
Surr: Decachlorobiphenyl	0.54		0.5000		108	70	130				

Sample ID:	MB-30806	Samp Type:	MBLK	Test Code:	SW_8082O	Units:	mg/Kg	Prep Date:	9/5/2013	RunNo:	61267
Client ID:	PBW	Batch ID:	30806	TestNo:	SW8082			Analysis Date:	9/7/2013	SeqNo:	1200679

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1016	ND	1.0									
Aroclor 1221	ND	1.0									
Aroclor 1232	ND	1.0									
Aroclor 1242	ND	1.0									
Aroclor 1248	ND	1.0									

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID: 30806**

Sample ID:	**MB-30806**	Samp Type:	**MBLK**	Test Code:	**SW_8082O**	Units:	**mg/Kg**	Prep Date:	**9/5/2013**	RunNo:	**61267**		
Client ID:	**PBW**	Batch ID:	**30806**	TestNo:	**SW8082**			Analysis Date:	**9/7/2013**	SeqNo:	**1200679**		

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Aroclor 1254	ND	1.0									
Aroclor 1260	ND	1.0									
Aroclor 1262	ND	1.0									
Total PCBs	ND	1.0									
Surr: Tetrachloro-m-xylene	0.48		0.5000		96.7	70	130				
Surr: Decachlorobiphenyl	0.54		0.5000		109	70	130				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID: 30807**

Sample ID:	**MB-30807**	Samp Type:	**MBLK**	Test Code:	**SW_8270-O**	Units:	**mg/Kg**	Prep Date:		**9/5/2013**	RunNo:		**61247**
Client ID:	**PBW**	Batch ID:	**30807**	TestNo:	**SW8270C**	**SW3580A**		Analysis Date:		**9/6/2013**	SeqNo:		**1200291**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
2,4,5-Trichlorophenol	ND	5.0									
2,4,6-Trichlorophenol	ND	5.0									
2,4-Dinitrotoluene	ND	5.0									
2-Methylphenol	ND	20									
3 & 4-Methylphenol	ND	20									
Hexachlorobenzene	ND	5.0									
Hexachlorobutadiene	ND	5.0									
Hexachloroethane	ND	5.0									
Nitrobenzene	ND	5.0									
Pentachlorophenol	ND	5.0									
Pyridine	ND	5.0									
Surr: 2,4,6-Tribromophenol	0		25.00		0	50	130				S
Surr: 2-Fluorobiphenyl	0		25.00		0	50	130				S
Surr: 2-Fluorophenol	0		25.00		0	50	130				S
Surr: Nitrobenzene-d5	0		25.00		0	50	130				S
Surr: Phenol-d5	0		25.00		0	50	130				S
Surr: Terphenyl-d14	0		25.00		0	50	130				S

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID: R61121**

Sample ID:	**LCS-R61121**	Samp Type:	**LCS**	Test Code:	**SW_1010**	Units:	**°F**	Prep Date:		RunNo:	**61121**
Client ID:	**LCSS**	Batch ID:	**R61121**	TestNo:	**SW1010**			Analysis Date:	**9/4/2013**	SeqNo:	**1197689**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Ignitability	81	70	81.00	0	100	90	110				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID:** R61249

Sample ID:	VOA10 LCS 090713	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	9/7/2013	RunNo:	61249
Client ID:	LCSW	Batch ID:	R61249	TestNo:	SW8260B			Analysis Date:	9/7/2013	SeqNo:	1200314

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1-Dichloroethene	8.2	1.0	10.00	0	82.5	70	130				
1,2-Dichloroethane	8.7	1.0	10.00	0	86.9	70	130				
1,4-Dichlorobenzene	8.4	1.0	10.00	0	83.8	75	125				
Benzene	8.9	1.0	10.00	0	88.7	80	120				
Carbon tetrachloride	9.6	1.0	10.00	0	96.2	65	140				
Chlorobenzene	8.6	1.0	10.00	0	85.8	80	120				
Chloroform	8.8	1.0	10.00	0	88.2	65	135				
Methyl ethyl ketone	9.3	10	10.00	0	93.2	30	150				J
Tetrachloroethene	9.0	1.0	10.00	0	89.5	45	150				
Trichloroethene	8.9	1.0	10.00	0	89.1	70	125				
Vinyl chloride	8.5	1.0	10.00	0	84.6	50	145				
Surr: 4-Bromofluorobenzene	61		60.00		101	75	120				
Surr: Dibromofluoromethane	57		60.00		95.8	85	115				
Surr: Toluene-d8	58		60.00		96.0	85	120				

Sample ID:	VOA10 LCS TCLP 0	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	9/7/2013	RunNo:	61249
Client ID:	LCSW	Batch ID:	R61249	TestNo:	SW8260B			Analysis Date:	9/7/2013	SeqNo:	1200315

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1-Dichloroethene	8.2	1.0	10.00	0	82.3	70	130				
1,2-Dichloroethane	9.0	1.0	10.00	0	90.2	70	130				
1,4-Dichlorobenzene	8.4	1.0	10.00	0	83.6	75	125				
Benzene	8.7	1.0	10.00	0	86.6	80	120				
Carbon tetrachloride	9.2	1.0	10.00	0	91.6	65	140				
Chlorobenzene	9.1	1.0	10.00	0	90.8	80	120				
Chloroform	8.8	1.0	10.00	0	87.7	65	135				
Methyl ethyl ketone	8.7	10	10.00	0	87.1	30	150				J
Tetrachloroethene	8.9	1.0	10.00	0	88.9	45	150				
Trichloroethene	8.8	1.0	10.00	0	88.2	70	125				
Vinyl chloride	8.3	1.0	10.00	0	83.0	50	145				
Surr: 4-Bromofluorobenzene	61		60.00		101	75	120				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID:** R61249

Sample ID:	VOA10 LCS TCLP 0	Samp Type:	LCS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	9/7/2013	RunNo:	61249
Client ID:	LCSW	Batch ID:	R61249	TestNo:	SW8260B			Analysis Date:	9/7/2013	SeqNo:	1200315

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	57		60.00		95.0	85	115				
Surr: Toluene-d8	57		60.00		95.7	85	120				

Sample ID:	VOA10 MBLK 09071	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	9/7/2013	RunNo:	61249
Client ID:	PBW	Batch ID:	R61249	TestNo:	SW8260B			Analysis Date:	9/7/2013	SeqNo:	1200317

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	1.0									
1,2-Dichloroethane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
Benzene	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									
Chloroform	ND	1.0									
Methyl ethyl ketone	ND	10									
Tetrachloroethene	ND	1.0									
Trichloroethene	ND	1.0									
Vinyl chloride	ND	1.0									
Surr: 4-Bromofluorobenzene	50		50.00		100	75	120				
Surr: Dibromofluoromethane	46		50.00		91.2	85	115				
Surr: Toluene-d8	47		50.00		94.4	85	120				

Sample ID:	VOA10 MBLK TCLP	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	9/7/2013	RunNo:	61249
Client ID:	PBW	Batch ID:	R61249	TestNo:	SW8260B			Analysis Date:	9/7/2013	SeqNo:	1200318

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	1.0									
1,2-Dichloroethane	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
Benzene	ND	1.0									
Carbon tetrachloride	ND	1.0									
Chlorobenzene	ND	1.0									

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID:** R61249

Sample ID:	VOA10 MBLK TCLP	Samp Type:	MBLK	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	9/7/2013	RunNo:	61249
Client ID:	PBW	Batch ID:	R61249	TestNo:	SW8260B			Analysis Date:	9/7/2013	SeqNo:	1200318

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Chloroform	ND	1.0									
Methyl ethyl ketone	ND	10									
Tetrachloroethene	ND	1.0									
Trichloroethene	ND	1.0									
Vinyl chloride	ND	1.0									
Surr: 4-Bromofluorobenzene	50		50.00		99.5	75	120				
Surr: Dibromofluoromethane	46		50.00		91.7	85	115				
Surr: Toluene-d8	47		50.00		94.1	85	120				

Sample ID:	1308B49-001BMS	Samp Type:	MS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	9/7/2013	RunNo:	61249
Client ID:	ZZZZZZ	Batch ID:	R61249	TestNo:	SW8260B			Analysis Date:	9/7/2013	SeqNo:	1200320

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1,600	200	2,000	0	82.2	70	130				
1,2-Dichloroethane	1,800	200	2,000	0	89.9	70	130				
1,4-Dichlorobenzene	1,600	200	2,000	0	77.8	75	125				
Benzene	1,800	200	2,000	0	89.1	80	120				
Carbon tetrachloride	1,900	200	2,000	0	94.8	65	140				
Chlorobenzene	1,600	200	2,000	0	82.3	80	120				
Chloroform	1,800	200	2,000	0	88.1	65	135				
Methyl ethyl ketone	1,900	2,000	2,000	0	95.7	30	150				J
Tetrachloroethene	1,700	200	2,000	0	86.1	45	150				
Trichloroethene	1,600	200	2,000	0	81.6	70	125				
Vinyl chloride	1,900	200	2,000	0	93.6	50	145				
Surr: 4-Bromofluorobenzene	12,000		12,000		97.8	75	120				
Surr: Dibromofluoromethane	12,000		12,000		97.2	85	115				
Surr: Toluene-d8	11,000		12,000		95.4	85	120				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID:** R61249

Sample ID: **1308B49-001BMSD** Samp Type: **MSD** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **9/7/2013** RunNo: **61249**

Client ID: **ZZZZZZ** Batch ID: **R61249** TestNo: **SW8260B** Analysis Date: **9/7/2013** SeqNo: **1200321**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1-Dichloroethene	1,700	200	2,000	0	86.4	70	130	1,644	4.98	25	
1,2-Dichloroethane	1,900	200	2,000	0	93.9	70	130	1,798	4.35	25	
1,4-Dichlorobenzene	1,700	200	2,000	0	83.5	75	125	1,556	7.07	25	
Benzene	1,800	200	2,000	0	89.0	80	120	1,782	0.112	25	
Carbon tetrachloride	1,900	200	2,000	0	96.4	65	140	1,896	1.67	25	
Chlorobenzene	1,800	200	2,000	0	89.7	80	120	1,646	8.60	25	
Chloroform	1,800	200	2,000	0	89.8	65	135	1,762	1.91	25	
Methyl ethyl ketone	1,900	2,000	2,000	0	94.7	30	150	1,914	1.05	25	J
Tetrachloroethene	1,800	200	2,000	0	88.1	45	150	1,722	2.30	25	
Trichloroethene	1,800	200	2,000	0	87.6	70	125	1,632	7.09	25	
Vinyl chloride	1,800	200	2,000	0	90.5	50	145	1,872	3.37	25	
Surr: 4-Bromofluorobenzene	12,000		12,000		99.6	75	120		0	25	
Surr: Dibromofluoromethane	12,000		12,000		97.6	85	115		0	25	
Surr: Toluene-d8	12,000		12,000		97.3	85	120		0	25	

Sample ID: **1309041-003AMS** Samp Type: **MS** Test Code: **SW_8260A** Units: **µg/L** Prep Date: **9/7/2013** RunNo: **61249**

Client ID: **PL-BL-03** Batch ID: **R61249** TestNo: **SW8260B** Analysis Date: **9/7/2013** SeqNo: **1200326**

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1-Dichloroethene	42,000	5,000	50,000	0	84.1	70	130				
1,2-Dichloroethane	46,000	5,000	50,000	0	91.4	70	130				
1,4-Dichlorobenzene	41,000	5,000	50,000	0	82.8	75	125				
Benzene	44,000	5,000	50,000	0	88.6	80	120				
Carbon tetrachloride	45,000	5,000	50,000	0	90.7	65	140				
Chlorobenzene	43,000	5,000	50,000	0	86.8	80	120				
Chloroform	47,000	5,000	50,000	0	94.1	65	135				
Methyl ethyl ketone	76,000	50,000	50,000	0	151	30	150				S
Tetrachloroethene	83,000	5,000	50,000	0	165	45	150				S
Trichloroethene	54,000	5,000	50,000	0	108	70	125				
Vinyl chloride	47,000	5,000	50,000	0	93.1	50	145				
Surr: 4-Bromofluorobenzene	320,000		300,000		106	75	120				

RTI Laboratories - QC SUMMARY REPORT

WO#: 1309041

Date Reported: 9/10/2013
Original

Client: Environmental Restoration LLC

Project: Plastech Engineered Products Site **Batch ID: R61249**

Sample ID:	1309041-003AMS	Samp Type:	MS	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	9/7/2013	RunNo:	61249
Client ID:	PL-BL-03	Batch ID:	R61249	TestNo:	SW8260B			Analysis Date:	9/7/2013	SeqNo:	1200326

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	280,000		300,000		94.4	85	115				
Surr: Toluene-d8	290,000		300,000		96.2	85	120				

Sample ID:	1309041-003AMSD	Samp Type:	MSD	Test Code:	SW_8260A	Units:	µg/L	Prep Date:	9/7/2013	RunNo:	61249
Client ID:	PL-BL-03	Batch ID:	R61249	TestNo:	SW8260B			Analysis Date:	9/7/2013	SeqNo:	1200327

Analyte	Result	LOQ	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Value	%RPD	RPDLimit	Qual
1,1-Dichloroethene	44,000	5,000	50,000	0	88.0	70	130	42,050	4.53	25	
1,2-Dichloroethane	47,000	5,000	50,000	0	93.8	70	130	45,700	2.59	25	
1,4-Dichlorobenzene	41,000	5,000	50,000	0	82.8	75	125	41,400	0	25	
Benzene	45,000	5,000	50,000	0	90.7	80	120	44,300	2.34	25	
Carbon tetrachloride	48,000	5,000	50,000	0	95.7	65	140	45,350	5.36	25	
Chlorobenzene	44,000	5,000	50,000	0	87.7	80	120	43,400	1.03	25	
Chloroform	46,000	5,000	50,000	0	92.6	65	135	47,050	1.61	25	
Methyl ethyl ketone	68,000	50,000	50,000	0	136	30	150	75,600	10.3	25	
Tetrachloroethene	82,000	5,000	50,000	0	165	45	150	82,700	0.242	25	S
Trichloroethene	54,000	5,000	50,000	0	108	70	125	53,950	0	25	
Vinyl chloride	45,000	5,000	50,000	0	89.5	50	145	46,550	3.94	25	
Surr: 4-Bromofluorobenzene	320,000		300,000		106	75	120		0	25	
Surr: Dibromofluoromethane	290,000		300,000		97.6	85	115		0	25	
Surr: Toluene-d8	290,000		300,000		97.2	85	120		0	25	

RTI Laboratories - Definitions and Acronyms

WO#: 1309041

Date Reported: 9/10/2013
Original

DEFINITIONS:

DF: Dilution factor; the dilution factor applied to the prepared sample.

DL: Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

DUP: Duplicate; aliquots of a sample taken from the same container under laboratory conditions and processed and analyzed independently, used to calculate Precision (%RPD).

LCS: Laboratory Control Sample; prepared by adding a known amount of target analytes to a specified amount of clean matrix and prepared with the batch of samples, used to calculate Accuracy (%REC).

LCSD: A duplicate LCS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

LOD: Limit of Detection; a laboratory verified concentration that can be detected at three times greater than the noise level. This concentration is equal to or greater than the DL.

LOQ: Limit of Quantitation; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below the LOQ are reported with a "J" qualifier.

MBLK: Method Blank; a sample of similar matrix that does not contain target analytes or interference that may impact the analytical results and is processed simultaneously with and under the same conditions as samples through all steps of the analytical procedure, used to assess and verify that the analytical process is free of contamination.

Mg/Kg or mg/L: Units of part per million (PPM) – milligram per Kilogram (W/W) or milligram per Liter (W/V).

MS: Matrix Spike; prepared by adding a known amount of target analytes to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available, used to calculate Accuracy (%REC)

MSD: A duplicate MS sample, used to calculate both Accuracy (%REC) and Precision (%RPD)

% REC: Percent Recovery of a known spike (SPK); a measure of accuracy expressed as a percentage of a measured (recovered) concentration compared to the known concentration (SPK) added to the sample. This is compared to the Low Limit and High Limit.

% RPD: Relative Percent Difference; a measure of precision expressed as a percentage of the difference between two duplicates relative to the average concentration. This is compared to the RPD Limit.

Qual: Qualifier that applies to the analyte reported

SPK: Spike; used in the QC section for both SPK Value and SPK Ref Val

Ug/Kg or ug/L: Units of part per billion (PPB) – microgram per Kilogram (W/W) or microgram per Liter (W/V).

QUALIFIERS:

*/X: Reported value exceeds the maximum allowed concentration by regulation or permit.

B: Analyte detected in the associated Method Blank at a concentration greater than 1/2 the LOQ

G: CCB result is greater than the MDL

H: Holding time for preparation or analysis has been exceeded

J: Estimated result. Greater uncertainty is associated with this result and data reported is estimated.

M: Manual Integration used to determine area response

P: Second column RPD exceeds 40%

Q/S: % REC exceeds control limits

R: % RPD exceeds control limits

T: MBLK result is greater than 1/2 of the LOQ

U: The analyte concentration is less than the DL. The result is reported as less than the LOD

ENVIRONMENTAL RESTORATION LLC

1666 Fablick Drive
Fenton, MO 63026
(636) 227-7477
Fax (636) 227-6447

Alternate billing information: 1309041

Report to: ED KIERNICKI
Email to: E. KIERNICKI @ ertcom

Project Description: PLASTECH SITE
City/State Collected: ANDOVER, OH

Phone: 5862462201
Fax:
Client: USEPA
Project Name: Plastech
Collected by: TVISHNER
Site/Facility ID#: P5-133
P.O. #: 9573

Collected by (signature):
Packed on Ice: N (Y)

Rush (Lab MUST Be Notified)
Same Day
Next Day
Two Day

Date Results Needed:
Email? No Yes
Fax? No Yes

No. of Containers

Analysis/Containers/Preservative

Chain of Custody
Page 1 of 1

Prepared by: TVISHNER

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Containers	TCLP (Metals, volatiles, semivols)	pH	Flashpoint	PCB's	Total Halogen	BTu	Remarks/Containment	Sample # (lab only)
PL-OL-01				8-30-13	0830	1	X	X	X	X	X	X		
PL-SL-02				8-30-13	0830	1	X	X	X					
PL-BL-03				8-30-13	0830	1	X	X	X					
PL-NL-04				8-30-13	0830	1	X	X	X					
PL-Trench-05				8-30-13	0830	1	X	X	X	X	X	X		
PL-TRANSF-06				8-30-13	0830	1	X	X	X	X	X	X		

*Matrix SS - Soil/Solid GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

pH _____ Temp _____

Remarks:

Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	8-30-13	1710	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	

Samples returned via: UPS Fed Ex Courier

CHAIN OF CUSTODY

RTI LABORATORIES

Environmental Sciences Division
31628 Glendale Street
Livonia MI. 48150

Materials Testing Division
33080 Industrial Road
Livonia, MI 48150

PHONE: (734) 422-8000
FAX: (734) 422-5342
www.rtilab.com

RTI WORK ORDER NO: 1309041

Please Include Email Address of Report Recipient !!!

SUBMITTING COMPANY

REPORT TO (Name): ED KIEKMEKI

BILL TO

PROJECT NAME: Plastech | PROJECT #: P5-133 | QUOTE #

COMPANY: ENVIRONMENTAL RESTORATION

COMPANY

SAMPLING LOCATION (STATE or COUNTRY): OH

ADDRESS: 20448 6812 19½ Mile Rd

ADDRESS

SPECIAL INSTRUCTIONS / COMMENTS

CITY, STATE, ZIP: STERLING HEIGHTS, MI 48314

CITY, STATE, ZIP

PHONE | E-MAIL (OR FAX IF NO EMAIL AVAILABLE)

P.O. NUMBER

SAMPLER'S PRINTED NAME | SAMPLER'S SIGNATURE

TESTS REQUESTED

ITEM NUMBER	SAMPLE ID	DATE SAMPLED	TYPE SAMPLED (Grab or Composite)	MATRIX CODE (see codes below)	NBR OF BOTTLES	NBR OF CONTAINERS AND PRESERVATIVES: NONE	HCL	HNO3	H2SO4	NaOH	Ascorbic Acid	OTHER	pH Acceptable? Y or N n/a (LAB only)	COMMENTS: Method Preserved Weights, HOT Samps Notation, Additional Sample Description, Air Volume, etc.
1														C.O.C To Follow Tuesday Sept. 3rd
2														
3														
4														
5														
6														
7														
8														
9														
10														

Relinquished By	Date	Time	Received By	Date	Time
[signature]	8-30-13	1708	[signature]	8-30-13	17:08
Relinquished By	Date	Time	Received By	Date	Time
Relinquished By	Date	Time	Received By	Date	Time

REPORT TRANSMITTAL DESIRED:

☐ HARDCOPY (extra cost) ☐ FAX ☐ EMAIL ☐ ONLINE

ALL REPORTING IS VIA THE RTI "FLASHPOINT" ONLINE SYSTEM UNLESS OTHERWISE SPECIFIED

FOR LAB USE ONLY

Temp of samples ____ °C On Wet Ice ? yes

Comments:

TURNAROUND DESIRED: Standard ☐ RUSH: Next BD ☐ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

Distribution: White - Lab; Pink - Client

See reverse side for Laboratory Terms and Conditions of Service

MATRIX CODES: A = AIR; DW = DRINKING WATER; GW = GROUNDWATER; L = LIQUID; O = OIL; WW = WASTE WATER; S = SOIL; SD = SOLID; SL = SLUDGE; SV = SOLVENT WASTE; W = WATER; WP = WIPE; SW = SURFACE WATER

Armando Flores

From: Rachel Dear [rdear@rtilab.com]
Sent: Tuesday, September 03, 2013 3:25 PM
To: Armando Flores
Subject: Fwd: RE: P5-133 Request for Quote-Analytical-Andover, OH Site

-------- Original Message --------
Subject:RE: P5-133 Request for Quote-Analytical-Andover, OH Site
Date: Tue, 3 Sep 2013 14:19:38 -0500
From: Ed Kiernicki <e.kiernicki@erllc.com>
To: Rachel Dear <rdear@rtilab.com>

Rachel,

Answers as asked.

<!--[if !supportLists]-->A) <!--[endif]-->The oil is all we need on this sample.
<!--[if !supportLists]-->B) <!--[endif]-->Yes , please run BTU on the samples as requested.
<!--[if !supportLists]-->C) <!--[endif]-->TCLP is all we need, no totals will be required on these samples.

Just as reference the RFQ sent out is a only a request for analysis that could possibly be run onsite. This doesn't mean we will always run exactly what is on the pricing lay out. We just need to have bids for these if for some reason we need to run these additional test as the site progresses.

Thanks for checking with me on these,

Ed Kiernicki
Response Manager
Environmental Restoration, LLC
6812 19 1/2 Mile Rd.
Sterling Heights, MI 48314
Cell # 586-246-2321
Office # 586-254-6553
Fax # 586-254-6547
e.kiernicki@erllc.com

From: Rachel Dear [mailto:rdear@rtilab.com]
Sent: Tuesday, September 03, 2013 2:44 PM
To: Ed Kiernicki; Armando Flores
Subject: P5-133 Request for Quote-Analytical-Andover, OH Site

Good Afternoon Ed,

I just needed to touch base with you on a few items:

A) Sample ID: PL-OL-01 we can only perform off of the top phase analysis (oil portion). The second phase is present, however, there is inadequate volume to perform the analysis.

B) BTU was not quoted on the original Statement of work, but it is on the COC. Would you like us to perform this analysis.

ATTACHMENT D
WASTE DISPOSAL MANIFEST

(Print)4

934948-13 1718809

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: ONDO68896778
2. Page 1 of: 3
3. Emergency Response Phone: (800) 567-7455
4. Manifest Tracking Number: 011328840 JJK

GENERATOR

5. Generator's Name and Mailing Address
USEPA REGION V
9311 GROH ROAD
GROSSE ILE MI 48138 (586)254-6553
Generator's Phone:

Generator's Site Address (if different than mailing address)
USEPA PLASTECH-ANDOVER
205 MAPLE ST.
ANDOVER OH 44003 (586)254-6553

6. Transporter 1 Company Name: NORTRU, LLC
U.S. EPA ID Number: MID021087275

7. Transporter 2 Company Name:
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
PETRO-CHEM PROCESSING GROUP
421 Lycaste
Facility's Phone: Detroit, MI 48214 (313) 824-5840
U.S. EPA ID Number: MID980615298

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
X	1. UN1789 WASTE HYDROCHLORIC ACID 8 PGII RQ(D002 (100%)) (Loose Pack)	001	DF	0095	G	D002
X	2. UN1789 WASTE HYDROCHLORIC ACID 8 PGII RQ(D002 (100%)) (Loose Pack)	001	DF	0005	G	D002
X	3. UN1760 WASTE CORROSIVE LIQUIDS, N.O.S. (SODIUM HYDROXIDE) 8 PGIII RQ(D002 (100%))	001	DF	0095	G	D002
X	4. NA3077 HAZARDOUS WASTE, SOLID, N.O.S. (MERCURY) 9 PGIII RQ(D009 (1%))	002	DM	0200	P	D009

14. Special Handling Instructions and Additional Information
(1) 592703-00 - ERG(157) ACID LIQUIDS - DESCR (2) 592703-00 - ERG(157) ACID LIQUIDS - DESCR (3) 592707-00 - ERG(154) CAUSTIC LIQUID (PL- (4) 592714-00 - ERG(171) SOLIDS CONTAMINATED
80.03
761-185

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: TRICIA A. EDWARDS
Signature: Tricia A. Edwards
Month: 10 Day: 29 Year: 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Joshua Zwirner
Signature:
Month: 10 Day: 29 Year: 13

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141	H141	H141	H141

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name:
Signature:
Month: Day: Year:

934948-13

1718809

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST (Continuation Sheet)

21. Generator ID Number: OHD068896778

22. Page 2 of 3

23. Manifest Tracking Number: 011328840JJK

24. Generator's Name

USEPA REGION V
9311 GROH ROAD , GROSSE ILE MI 48138 (586)254-6553

25. Transporter _____ Company Name — U.S. EPA ID Number

26. Transporter _____ Company Name — U.S. EPA ID Number

GENERATOR

27a. HM	27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Containers No.	28. Containers Type	29. Total Quantity	30. Unit Wt./Vol.	31. Waste Codes		
X	5 UN3175 WASTE SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (METHYL ETHYL KETONE) 4.1 PGIII RQ(D001 (100#))		DM		P	D001		
X	6 UN1671 WASTE PHENOL, SOLID 6.1 PGII RQ(1000#)		DM		P	U188		
X	7 UN2809 WASTE MERCURY [CONTAINED IN MANUFACTURED ARTICLES] 8 (6.1) PGIII		DM		P			
X	8 UN1479 WASTE OXIDIZING SOLID, N.O.S. (BROMO-CHLORO-5,5-DIMETHYLHYDANTOIN) 5.1 PGII RQ(D001 (100#))		DM		G			
	9 NON-RCRA NON-DOT REGULATED MATERIAL (NEUTRAL LIQUIDS - LOOSEPACK)		DM		P	029L		
	10 NON DOT REGULATED MATERIAL (NEUTRAL LIQUIDS)		DM		G	029L		
	11 NON DOT REGULATED MATERIAL (POLYESTER ADIPATE)		DM		G	029L		
	12 NON-RCRA, NON-DOT REGULATED MATERIAL (NON-TSCA TRANSFORMER OIL)		TP		G	021L		
	13 NON DOT REGULATED MATERIAL (NEUTRAL LIQUIDS)		DM		G	029L		
	14 NON DOT REGULATED MATERIAL (OIL)		DM		G	021L		

32. Special Handling Instructions and Additional Information (5) 592711-00 - ERG(133) TRENCH SOLIDS D001 (6) 592710-00 - ERG(153) PHENOL (7) 592706-00 - ERG(172) MERCURY LOOSEPACK (8) 592712-00 - ERG(140) MICROBIOCIDE (9) 592713-00 - NEUTRAL LIQUIDS - LO (10) 592708-00 - NEUTRAL LIQUIDS (11) 593111-00 - TYPE R FLUID (12) 592705-00 - TRANSFORMER OIL (PL (13) 592708-00 - NEUTRAL LIQUIDS (14) 592709-00 - OIL ANALYSIS (PL-OL

TRANSPORTER

33. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name [redacted] Signature [redacted] Month 10 Day 29 Year 13

34. Transporter _____ Acknowledgment of Receipt of Materials

Printed/Typed Name _____ Signature _____ Month _____ Day _____ Year _____

DESIGNATED FACILITY

35. Discrepancy

36. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

(5) H141	(6)	(7) H141	(8) H141	(9) H141
(10) H141	(11) H141	(12) H061	(13) H141	(14) H061

PSC

LAND DISPOSAL RESTRICTION NOTIFICATION CERTIFICATION FORM

Generator Name: USEPA PLASTECH-ANDOVER

Generator EPA ID Number: OHD068896778

Manifest Number: 011328840JJK

The purpose of this form is to provide appropriate notification/certification, in accordance with the Land Disposal Restriction regulations set forth in 40 CFR Part 268, to the treatment, storage or disposal facility which receives the wastes referenced below. In accordance with the waste analysis and recordkeeping requirements specified in 40 CFR 268.7, I have indicated below the relevant information required to properly manage my waste(s) in compliance with the Land Disposal Restriction treatment standards found in 40 CFR 268 and any applicable prohibition levels set forth in 40 CFR 268.32 or RCRA section 3004(d).

Line 1 Profile: 592703-00 Treatability Group:Non-WasteWater UHC's: N Class Group: A

Waste Codes

D002 - Corrosive managed in a CWA system

Line 2 Profile: 592703-00 Treatability Group:Non-WasteWater UHC's: N Class Group: A

Waste Codes

D002 - Corrosive managed in a CWA system

Line 4 Profile: 592714-00 Treatability Group:Non-WasteWater UHC's: N Class Group: A

Waste Codes

D009 - LOW MERCURY

Line 5 Profile: 592711-00 Treatability Group:Non-WasteWater UHC's: N Class Group: A

Waste Codes

D001 - Ignitable (except High TOC) managed in A NONCWA system

Line 8 Profile: 592712-00 Treatability Group:Non-WasteWater UHC's: N Class Group: A

Waste Codes

D001 - High TOC Ignitable (>10% total organic carbon)

See back for descriptions of classification groups and classification group certification statement.

I hereby certify that I believe that the information I submitted herein is true, accurate and complete.

Signature: [signature] **Title:** OSC **Date:** 10/29/13